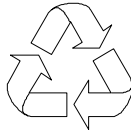


Veriton 3200

Service Guide

Service guide files and updates are available on the AIPG/CSD web; for more information, please refer to <http://csd.acer.com.tw>



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Conventions

The following conventions are used in this manual:

Screen messages	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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System Specifications

Overview

The Veriton 3200 supports Intel® Pentium III Flip Chip-Pin Grid Array (FC-PGA) processor based Micro ATX, IBM PC/AT compatible system with PCI/AGP bus.

Features

Performance

- ☐ Intel Pentium® III and Celeron processor with integrated L2 cache memory in Flip Chip (FC)-PGA 370 socket form factor
- ☐ Expandable system memory to a maximum of 512 MB

NOTE: Due to a chipset limitation you can only use two DIMM sockets (DIMM1 and DIMM2) when you install a 133 MHz front side bus CPU. If you install a 100 MHz front side bus CPU then you can use all of the DIMM sockets.

- ☐ Power management function
- ☐ Reserved keylock and intrusion alarm function
- ☐ 3.5-inch floppy disk drive
- ☐ CD-ROM/DVD-ROM/CD-RW drive
- ☐ High-capacity, Enhanced-IDE hard disk

Multimedia

- ☐ 128-bit graphics accelerator onboard with an additional AGP card slot

NOTE: The onboard VGA function will automatically be disabled when you install an AGP VGA card in the AGP slot.

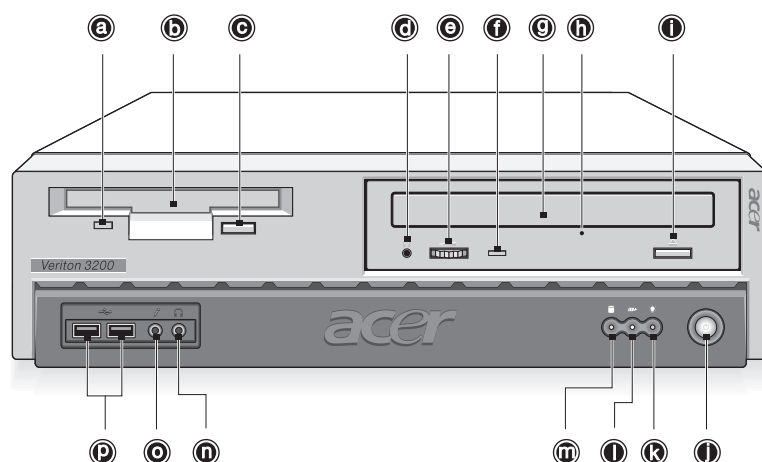
- ☐ 3-D quality audio system via onboard audio controller
- ☐ Supports CRT (cathode-ray tube) monitors
- ☐ Audio-in/Line-in, Audio-out/Line-out, Headphone-out, Mic-in, and Game/MIDI interfaces

NOTE: The system has two microphone-in ports (front and rear). However, you can not use both of them at the same time. The default setting for your system enables the microphone-in port in front and disables the one at the back. You must first enable the front microphone-in port before you can use it.

Connectivity

- ☐ PS/2 mouse and keyboard interface
- ☐ One parallel interface and two serial interfaces (internal and external)
- ☐ Universal Serial Bus (USB) ports (available on front and rear panels)
- ☐ High-speed fax/data PCI modem (optional)
- ☐ 10Base-T/100Base-TX network support with remote wake-up function

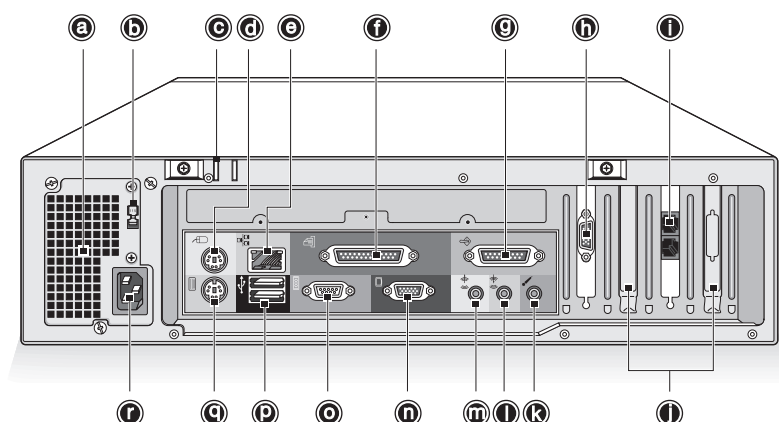
Front Panel



Label	Icon	Component
a		Floppy disk drive light-emitting diode (LED)
b		3.5-inch floppy disk drive
c		Floppy disk drive eject button
d		CD-ROM/DVD-ROM/CD-RW Headphone/Earphone port
e		Volume tuner
f		CD-ROM/DVD-ROM/CD-RW LED
g		CD-ROM/DVD-ROM/CD-RW tray
h		CD-ROM/DVD-ROM/CD-RW emergency eject slot
i		Stop/Eject button
j		Power switch
k		Power LED
l		System activity LED
m		Hard disk drive activity LED
n		Headphone-out port
o		Microphone-in port*
p		USB ports

* The system has two microphone-in ports (front and rear). However, you can not use both of them at the same time. The default setting for your system enables the microphone-in port in front and disables the one at the back. You must first enable the front microphone-in port before you can use it.

Rear panel

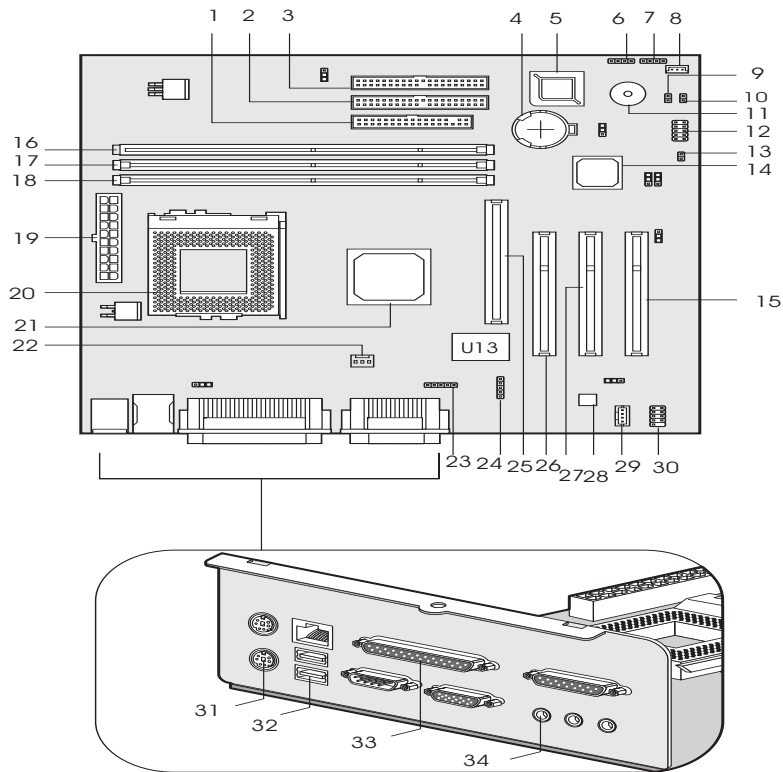


Label	Icon	Color	Component
a			Power supply
b			Voltage Selector switch
c			Keyhole
d		Green	PS/2 mouse port
e		White	Network port
f		Burgundy	Parallel/Printer port
g		Gold	Game/MIDI port
h		Blue	VGA port*
i		Blue	Handset/telephone line ports
j			Expansion slots
k			Microphone-in port†
l		Light blue	Audio-in/Line-in jack
m		Lime	Audio-out/Line-out jack
n		Blue	CRT monitor port
o		Teal or Turquoise	Serial port
p		Black	USB ports
q		Purple	PS/2 keyboard port
r			Power cord socket

* The CRT monitor port is automatically disabled when an add-on VGA card is installed into the system. Connect the monitor to the VGA port instead.

† The system has two microphone-in ports (front and rear). However, you can not use both of them at the same time. The default setting for your system enables the microphone-in port in front and disables the one at the back. You must first enable the front microphone-in port before you can use it.

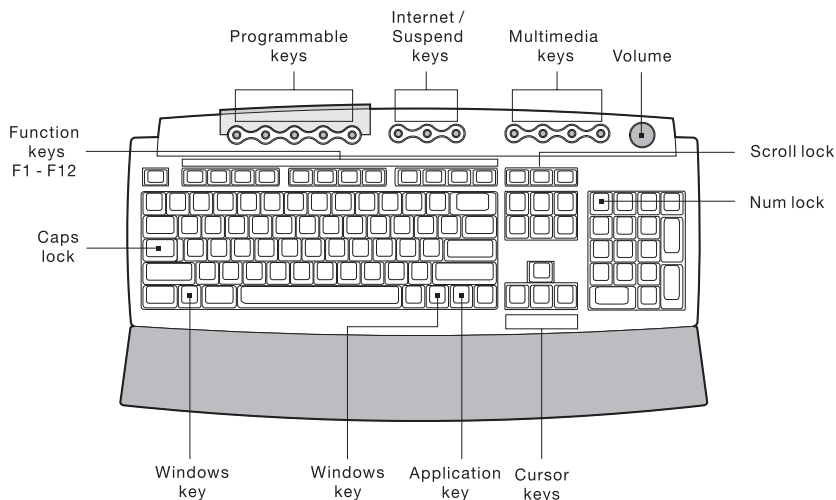
Main Board Layout



- | | | | |
|----|-----------------------------------|----|--|
| 1 | Floppy disk drive connector | 18 | DIMM sockets 1 |
| 2 | IDE 1 HDD connector | 19 | ATX power connector |
| 3 | IDE 2 HDD connector | 20 | FC-PGA CPU socket |
| 4 | Battery | 21 | Intel 82815 chipset |
| 5 | Firmware HUB (BIOS) | 22 | 3-pin CPU fan connector |
| 6 | IDE LED connector | 23 | CD-ROM audio connector |
| 7 | Power LED connector | 24 | Audio connector for USB-audio board |
| 8 | Wake on LAN connector | 25 | AGP slot |
| 9 | Turbo/LAN active LED connector | 26 | PCI slots 1 |
| 10 | ATX power switch | 27 | PCI slots 2 |
| 11 | Buzzer | 28 | Audio chipset |
| 12 | USB connector for USB-audio board | 29 | FAX-VOICE |
| 13 | Intrusion alarm connector | 30 | Serial port 2 (COM2) connector (optional) |
| 14 | Intel 82801BA chipset | 31 | PS/2 mouse (upper) and keyboard (lower) ports |
| 15 | PCI slots 3 | 32 | Network (upper) and USB (lower) ports |
| 16 | DIMM sockets 3 | 33 | Parallel (upper), VGA (lower right) and serial port 1 (lower left) ports |
| 17 | DIMM sockets 2 | 34 | MIDI/Game (Upper), Line-Out (Left), Line-In (Middle), and Mic-In Ports (Right) |

Keyboard

The keyboard that came with your computer has full-sized keys that include separate cursor keys, two Windows keys, and twelve function keys.



Programmable keys

The programmable keys help you directly access a URL (Web site) or launch any program, file, or application in your system. The fifth key is set to launch the media player. If you want to configure the settings of each key, right-click on the Magic Keyboard icon located on your Windows desktop.

Internet/Suspend keys

The Internet/Suspend keys consist of three buttons:

Icon	Key	Description
	Email	Launches your email application.
WWW	Web browser	Launches your current default browser.
	Suspend/Resume	Press this button to put the system to sleep. Press again to wake the system up.

Multimedia keys

The multimedia keys allow you to play, pause, stop, step forward, or step back a song or movie conveniently using your keyboard.

Icon	Key	Description
▶▶ /	Play/Pause	Press to start playing an audio or video file. Press again to pause.
■	Stop	Press to stop playing the audio or video file.
▶▶▶	Forward	Press to skip forward to the next file and start playing.
◀◀◀	Backward	Press to skip backward to the previous file and start playing.

Volume control/Mute



The volume control/mute knob controls the speaker volume. Turn it clockwise or counterclockwise to adjust the volume. Press it to toggle between mute and sound.

Cursor keys

The cursor keys, also called the arrow keys, let you move the cursor around the screen. They serve the same function as the arrow keys on the numeric keypad when the Num Lock is toggled off.

Lock keys

The keyboard has three lock keys which you can toggle on and off to switch between two functions

Lock Key	Description
Caps Lock	When activated, all alphabetic characters typed appear in uppercase (same function as pressing Shift + <letter>).
Num Lock	When activated, the keypad is set to numeric mode; i.e., the keys function as a calculator (complete with arithmetic operators such as +, -, *, and /).
Scroll Lock	When activated, the screen moves one line up or down when you press the up arrow or down arrow respectively. Take note that Scroll Lock may not work with some applications.

Windows keys

The keyboard has two keys that perform Windows-specific functions

Key	Description
Windows logo key 	Start button. Combinations with this key perform special functions, such as: Windows + Tab : Activate the next Taskbar button Windows + E : Explore My Computer Windows + F : Find Document Windows + M : Minimize All Shift + Windows + M : Undo Minimize All Windows + R : Display Run dialog box
Application key 	Opens the applications context menu (same function as clicking the right button of the mouse).

Hardware Specifications and Configurations

Processor

Item	Specification
Type	Intel® Celeron and Intel® Pentium III processors with Flip Chip-PGA package
Slot	Socket 370
Speed	Celeron processor upto 766 MHz and Pentium III processor upto 1 GHz
Minimum operating speed	0 MHz (If Stop CPU Clock in Sleep State the BIOS Setup is set to Enabled .)
Voltage	Processor voltage can be detected by the system without setting any jumper.

BIOS

Item	Specification
BIOS code programmer	Acer
BIOS version	V4.0
BIOS ROM type	Flash ROM
BIOS ROM size	4Mbits
BIOS ROM package	32-pin DIP package
Support protocol	PCI 2.1, APM1.2, DMI 2.00.1, E-IDE, ACPI 1.0, ESCD 1.03, ANSI ATA 3.0, PnP 1a, Bootable CD-ROM 1.0, ATAPI
Boot from CD-ROM feature	Yes
Support to LS-120 drive	Yes
Support to BIOS boot block feature	No

NOTE: The BIOS can be overwritten/upgraded using the AFLASH utility (AFLASH.EXE).

BIOS Hotkey List

Hotkey	Function	Description
	Enter BIOS Setup Utility	Press while the system is booting to enter BIOS Setup Utility.
F8	Enable hidden page of BIOS Setup Utility	Press in BIOS Setup Utility main menu screen, the Advanced Options menu then appears. The items on the Advanced Options menu are: Memory/Cache Options PnP/PCI Options
Alt + F4	Enable hidden page of BIOS Setup Utility	Press in BIOS Setup Utility main menu screen, the Advanced Options menu then appears. The items on the Advanced Options menu are: Memory/Cache Options PnP/PCI Options Chips Options

System Memory

Item	Specification
Memory socket number	3 sockets (3 banks)
Support memory size per socket	64/128/256MB
Support maximum memory size	512MB
Support memory type	SDRAM
Support memory speed	100/133MHz (PC100/ PC133)

System Memory

Item	Specification
Support memory voltage	3.3 V
Support memory module package	168-pin DIMM
Support to parity check feature	Yes
Support to Error Correction Code (ECC) feature.	Yes
Memory module combinations	You can install memory modules in any combination as long as they match the Memory Combination specifications.

Memory Combinations-100 MHz

DIMM 1	DIMM 2	DIMM 3	TOTAL
128M	128M	128M	384M
256M	256M	0M	512M
64M	64M	64M	192M
32M	32M	32M	96M
16M	16M	16M	48M

Memory Combinations-133 MHz

DIMM 1	DIMM 2	DIMM 3	TOTAL
256/DS M	256/DS M	0M	512M
64/SS M	64/SS M	64/SS M	192M
128/SS M	128/SS M	128/SS M	384M

NOTE: For Memory Combinations-133 MHz, if memory is double-sided, only slot 1 and slot 2 will work. The maximum memory size of S58M is 512M. Users can make different combinations of double-sided memory in slot 1 and slot 2; single-sided memory in slot 1, 2, and 3, but, the total memory should not go beyond 512M

Cache Memory

Item	Specification
First-Level Cache Configurations	
Cache function control	Enable/Disable by BIOS Setup (Advanced options)
Second-Level Cache Configurations Below information is only applicable to system with installed Intel® Celeron and Pentium III processors.	
L2 Cache RAM type	PBSRAM
L2 Cache RAM size	Pentium III processor: 256 KB Celeron processor: 128 KB
L2 Cache RAM speed	One-half the processor core clock frequency ?????
L2 Cache RAM voltage	Pentium III processor: 1.65V Celeron processor: ????
L2 Cache function control	Enable/Disable by BIOS Setup
L2 Cache scheme	Fixed in write-back

Video Interface

Item	Specification
Video controller	Embedded in Intel 815E
Video controller resident bus	AGP bus (AGP 2X/4X for AGP slot)
Video interface support	Video YUV texture in all texture formats H/W DVD accelerator

*32 - 24bpp color data is processed using a 32bpp data format

Display Screen Resolution	Bits Per Pixel (Frequency in Hz) 8-bit Indexed	Bits Per Pixel (Frequency in Hz) 16-bit Indexed	Bits Per Pixel (Frequency in Hz) 24-bit Indexed
320x240	70	70	70
320x240	70	70	70
352x480	70	70	70
352x576	70	70	70
400x300	70	70	70
512x384	70	70	70
640x400	70	70	70
640x480	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
720x480	75, 85	75, 85	75, 85
720x576	60, 75, 85	60, 75, 85	60, 75, 85
800x600	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1024x768	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1152x864	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1280x720	60, 75, 85	60, 75, 85	60, 75, 85
1280x960	60, 75, 85	60, 75, 85	60, 75, 85
1280x1024	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1600x900	60, 75, 85	60, 75, 85	60, 75, 85
1600x1200	60, 70, 72, 75, 85	Not available	Not available

NOTE: You may disable the on-board video function in the BIOS Utility.

Audio Interface

Item	Specification
Audio controller	Embedded in Intel 82801BA ICH II
Audio controller resident bus	AC'97 link
Audio function control	Enable/disable by BIOS Setup
Mono or stereo	Stereo
Resolution	16 bits
Compatibility	AC'97 2.1 compliant Sound Blaster Pro compatible Mixed digital and analog high performance chip Enhanced stereo full duplex operation High performance PCI audio accelerator Full native DOS games compatibility High-Quality ESFM music synthesizer MPU-401(UART mode) interface for wavetable synthesizers and MIDI devices Integrated dual game port Meets PC 97/PC98 and WHQL specifications
Music synthesizer	Yes
Sampling rate	44.1 KHz
MPU-401 UART support	Yes
Microphone jack	Supported On audio-I/O board (connects via CN8)
Headphone jack	Supported On audio-I/O board (connects via CN8)
Package	QFP64

IDE Interface

Item	Specification
IDE controller	Embedded in Intel 82801BA ICH II
IDE controller resident bus	PCI bus
Number of IDE channel	2 on-board: 40-pin hard disk drive connector,
Support IDE interface	E-IDE (up to PIO mode 4 and Ultra DMA/33, Ultra DMA/66 and Ultra DMA/100 mode 2) ANSIS ATA rev.4.0 ATAPI
Support bootable CD-ROM	Yes

Floppy disk drive Interface

Item	Specification
Floppy disk drive controller	Embedded in LPC 47B277
Floppy disk drive controller resident bus	LPC
Support FDD format	360KB, 720KB, 1.2MB, 1.44MB, 2.88MB; 3-mode

Parallel Port

Item	Specification
Parallel port controller	Embedded in LPC 47B277
Parallel port controller resident bus	LPC
Number of parallel ports	1
Support ECP/EPP	ECP / EPP 1.7 & 1.9
Connector type	25-pin D-type female connector
Parallel port function control	Enable/disable by BIOS Setup
Optional ECP DMA channel (in BIOS Setup)	DMA channel 1 DMA channel 3
Optional parallel port I/O address (via BIOS Setup)	378h 278h
Optional parallel port IRQ (via BIOS Setup)	IRQ5 IRQ7

Serial Port

Item	Specification
Serial port controller	Embedded in Intel 82801BA ICH II
Serial port controller resident bus	LPC
Number of serial port	2
Serial ports location	CN4, COM 2
16550 UART support	Yes
Connector type	10-pin connector
Optional serial port I/O address (via BIOS Setup)	3F8h, 2F8h, 3E8h, 2E8h
Optional serial port IRQ (via BIOS Setup)	4, 3

LAN Interface

Item	Specification
LAN controller	Intel 82562ET LAN controllers
LAN controller resident bus	PCI bus
LAN port	One RJ-45 on board (CN??)
Function control	Enable/disable by BIOS Setup

Modem

Item	Specification
Fax modem data baud rate (bps)	14.4K bps
Data modem data baud rate (bps)	56K bps
Voice modem	Yes
Modem connector type	RJ11
Full duplex	Not applicable

USB Port

Item	Specification
Universal HCI	USB 1.0
USB Class	Support legacy keyboard for legacy mode

Memory Address Map

Address	Size	Function
000000 - 07FFFF	512KBytes	Host Memory
080000 - 09FFFF	128KBytes	Host/PCI Memory
0A0000 - 0BFFFF	128KBytes	PCI/ISA Video Buffer Memory
0C0000 - 0C7FFF	32KBytes	Video BIOS Memory
0C8000 - 0DFFFF	96Kbytes	ISA Card BIOS & Buffer Memory
0E0000 - 0EFFFF	64Kbytes	BIOS Extension Memory Setup and Post Memory PCI Development BIOS
0F0000 - 0FFFFFFF	64Kbytes	System BIOS Memory
100000 - UPPER LIMIT		Main Memory
UPPER LIMIT - 4GBytes		PCI Memory

PCI INTx# and IDSEL Assignment Map

PCI INTx #	PCI Devices	Device IDSEL: ADxx
INTA#	PCI Slot 1	AD16
INTB#	PCI slot 2	AD17
INTC#	PCI slot 3	AD22

PCI Slot IRQ Routing Map

PCI INTX#	INTA	INTB	INTC	INTD	Bus Mastering
PCI 1	Route 1	Route 2	Route 3	Route 4	Enabled
PCI 2	Route 4	Route 1	Route 2	Route 3	Enabled
PCI 3	Route 3	Route 4	Route 1	Route 2	Enabled

I/O Address Map

Hex Range	Devices
000-00F	DMA Controller-1
020-021	Interrupt Controller-1
040-043	System Timer
060-060	Keyboard Controller 8742
061-061	System Speaker
070-071	CMOS RAM Address and Real Time Clock
081-08F	DMA Controller-2
0A0-0A1	Interrupt Controller-2
0C0-0DF	DMA Controller-2
0F0-0FF	Math Co-Processor
170-177	Secondary IDE
1F0-1F7	Primary IDE
278-27F	Parallel Printer Port 2
2F8-2FF	Serial Asynchronous Port 2
378-37F	Parallel Printer Port 1
3F0-3F5	Floppy Disk Controller
3F6-3F6	Secondary IDE
3F7-3F7	Primary IDE
3F8-3FF	Serial Asynchronous Port 1
0CF8	Configuration Address Register
0CFC	Configuration Data Register
778-77A	Parallel Printer Port 1

IRQ Assignment Map

IRQx	System Devices	Add-On-Card Devices
IRQ0	Timer	N
IRQ1	Keyboard	N
IRQ2	Cascade Interrupt Control	N
IRQ3	Serial Alternate	Reserved
IRQ4	Serial Primary	Reserved
IRQ5	Parallel Port (Alternate)	Reserved
IRQ6	Floppy Diskette	Reserved
IRQ7	Parallel Port	Reserved
IRQ8	Real Time Clock	N
IRQ9	N	Reserved
IRQ10	N	Reserved
IRQ11	N	Reserved
IRQ12	PS/2 Mouse	Reserved
IRQ13	Math Co-processor Exception	N
IRQ14	Fix Diskette	Reserved
IRQ15	Fix Diskette	Reserved

NOTE: N - Not in use

DRQ Assignment Map

DRQx	System Devices	Add-On-Card Devices
DRQ0	N	Reserved
DRQ1	N	Reserved
DRQ2	Floppy Diskette	N
DRQ3	N	Reserved
DRQ4	Cascade	N
DRQ5	N	Reserved
DRQ6	N	Reserved
DRQ7	N	Reserved

NOTE: N - Not in use

Main Board Major Chips

Item	Controller
North Bridge	Intel 82815 GMCH
South Bridge	Intel 82801BA ICH II
Super I/O controller	SMSC LPC47B277
Audio controller	Built-in Intel 82801 ICH
LAN controller	Intel 82562ET
HDD controller	Built-in Intel 82801BA ICH II
Keyboard controller	Built-in Intel 82801BA ICH II
RTC	Built-in Intel 82801BA ICH II

Environmental Requirements

Item	Specifications
Temperature	
Operating	+10 ~ +35°C
Non-operating	-20 ~ +60°C (Storage package)
Humidity	
Operating	20% to 80% RH
Non-operating	20% to 80% RH
Vibration	
Operating (unpacked)	5 ~ 16.2 Hz: 0.38 mm 16.2~250 Hz: 0.2G
Non-operating (packed)	5 ~ 27.1 Hz: 0.6 G 27.1 ~ 50 Hz: 0.4 mm 50 ~ 500 Hz: 2 G

Mechanical Specifications

Item	Specification
Weight One 3.5 FDD and one 3.5 HDD (without packing)	Depends on local configuration

Switching Power Supply 145W

Input Frequency	Frequency Variation Range
50Hz	47Hz to 53Hz
60Hz	57Hz to 63Hz

Input Voltage	Variation Range
100 - 120 VRMS	90-132 VRMS
200 - 240 VRMS	180-264 VRMS

Input Current	Measuring Range
4A	90 -132 VRMS
3A	180 - 264 VRMS

(This is for 145 power supply)

NOTE: 1. This "4A" includes the outlet supply current: 2A.
2. Measure at line input 90VRMS and maximum load condition.

Output Requirements	Regulation	Current Rating
+5V	+ -5%	15A
+12V	+ -5%	3A
-12V	+ -10%	0.3A
+3.3V	+ -5%	12A
-5V	+ -10%	0A
+5Vaux	+ -5%	1A

NOTE: +5V and 3.3V total power is 100W max.

Power Management Functions

Device Standby Mode

- ☐ Independent power management timer for hard disk drive devices (0-15 minutes, time step=1 minute).
- ☐ Hard disk drive goes into Standby mode (for ATA standard interface).
- ☐ Disable V-sync to control the VESA DPMS monitor.
- ☐ Resume method: device activated (Keyboard for DOS, keyboard & mouse for Windows).
- ☐ Resume recovery time: 3-5 sec.

Global Standby Mode

- ☐ Global power management timer (2-120 minutes, time step=10 minute).
- ☐ Hard disk drive goes into Standby mode (for ATA standard interface).
- ☐ Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- ☐ Resume recovery time: 7-10 sec.

Suspend Mode

- ☐ Independent power management timer (2-120 minutes, time step=10 minutes) or pushing external switch button
- ☐ CPU goes into SMM.
- ☐ CPU asserts STPCLK# and goes into the Stop Grant State.
- ☐ LED on the panel turns amber color.
- ☐ Hard disk drive goes into SLEEP mode (for ATA standard interface).
- ☐ Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- ☐ Return to original state by pushing external switch button.

Suspend to RAM

- ☐ The system context is maintained in system memory
- ☐ Power is shut to non-critical circuits.
- ☐ Memory is retained, and refreshes continually.
- ☐ All clocks shut except RTC.
- ☐ Return to original state by pushing external switch button & "PME" events at ACPI mode.

System Utilities

Most systems are already configured by the manufacturer or the dealer. There is no need to run Setup when starting the computer unless you get a Run Setup message.

The Setup program loads configuration values into the battery-backed nonvolatile memory called CMOS RAM. This memory area is not part of the system RAM.

NOTE: If you repeatedly receive Run Setup messages, the battery may be bad. In this case, the system cannot retain configuration values in CMOS.

Before you run Setup, make sure that you have saved all open files. The system reboots immediately after you exit Setup.

Entering Setup

To enter Setup, press the key combination .

NOTE: You must press  simultaneously while the system is booting.

The Setup Utility main menu then appears:

Setup Utility
• System Information • Product Information • Disk Drives • Onboard Peripherals • Power Management • Boot Options • Date and Time • System Security
Load Default Settings
Abort Settings Change

The system supports two BIOS Utility levels: Basic and Advanced. The above screen is the BIOS Utility Basic Level screen. It allows you to view and change only the basic configuration of your system.

If you are an advanced user, you may want to check the detailed configuration of your system. Detailed system configurations are contained in the Advanced Level. To view the Advanced Level menu, press **F8** or the **Alt + F4** keys simultaneously.

NOTE: The **F8** and **Alt + F4** keys work only when you are in the main menu. This means that you can activate the advanced level and hidden information only when you are in the main menu.

The following screen shows the Advanced Level main menu:

Setup Utility
• System Information • Product Information • Disk Drives • Onboard Peripherals • Power Management • Boot Options • Date and Time • System Security • Advanced Options
Load Default Settings
Abort Settings Change

The command line at the bottom of the menu tells you how to move within a screen and from one screen to another.

- ☐ To select an option, move the highlight bar by pressing  or  then press .
- ☐ Press  to move to the next page or  to return to the previous page.
- ☐ To change a parameter setting, press  or  until the desired setting is found.
- ☐ Press  to return to the main menu. If you are already in the main menu, press  again to exit Setup.

The parameters on the screens show default values. These values may not be the same as those in your system.

The grayed items on the screens have fixed settings and are not user-configurable.

System Information

The following screen appears if you select System Information from the main menu.

System Information	
Processor	Pentium III
Processor Speed	600 MHz
Level 1 Cache	32 KB, Enabled
Level 2 Cache	256 KB, Enabled
Floppy Drive A	1.44 MB 3.5-inch
Floppy Drive B	None
IDE Primary Channel Master	HardDisk, xxxx M.B.
IDE Primary Channel Slave	None
IDE Secondary Channel Master	IDE CD-ROM
IDE Secondary Channel Slave	None
Total Memory	64 MB
1st Bank.....	SDRAM, 32 MB
2nd Bank.....	SDRAM, 32 MB
3rd Bank.....	None
Serial Port 1	3F8h, IRQ 4
Serial Port 2	Disabled
Parallel Port	378h, IRQ 7
PS/2 Mouse	Installed

This page shows the current basic configuration of your system.

The following table describes the parameters found in the System Information pages:

Parameter	Description	Format
Processor	Specifies the type of processor currently installed in your system.	
Processor Speed	Specifies the speed of the processor currently installed in your system.	
Level 1 Cache	Specifies the first-level or the internal memory (i.e., the memory integrated into the processor) size, and whether it is enabled or disabled.	Cache size in KB
Level 2 Cache	Specifies the second-level cache memory size currently supported by the system.	Cache size in KB
Floppy Drive A	Shows the diskette drive A type.	Capacity, dimension
Floppy Drive B	Shows the diskette drive B type.	Capacity, dimension
IDE Primary Channel Master	Specifies the current configuration of the IDE device connected to the master port of the primary IDE channel.	Drive type, capacity
IDE Primary Channel Slave	Specifies the current configuration of the IDE device connected to the slave port of the primary IDE channel.	Drive type, capacity

Parameter	Description	Format
IDE Secondary Channel Master	Specifies the current configuration of the IDE device connected to the master port of the secondary IDE channel.	Drive type, capacity
IDE Secondary Channel Slave	Specifies the current configuration of the IDE device connected to the slave port of the secondary IDE channel.	Drive type, capacity
Total Memory	Specifies the total amount of onboard memory. The memory size is automatically detected by BIOS during the POST. If you install additional memory, the system automatically adjusts this parameter to display the new memory size.	Memory size in MB
1st Bank	Indicates the type of DRAM installed in the DIMM 1 socket. The None setting indicates that there is no DRAM installed.	DIMM type, capacity in MB
2nd Bank	Indicates the type of DRAM installed in the DIMM 2 socket. The None setting indicates that there is no DRAM installed.	DIMM type, capacity in MB
3rd Bank	Indicates the type of DRAM installed in the DIMM 3 socket. The None setting indicates that there is no DRAM installed.	DIMM type, capacity in MB
Serial Port 1	If enabled, indicates the IRQ and I/O port Address assigned to serial port 1.	I/O port address
Serial Port 2	If enabled, indicates the IRQ and I/O port Address assigned to serial port 2.	I/O port address
Parallel Port	If enabled, indicates the IRQ and I/O port Address assigned to the parallel port.	I/O port address
PS/2 Mouse	Specifies the presence of a PS/2 mouse	Installed or Disabled

Product Information

The screen below appears if you select Product Information from the main menu:

Product Information	
Product Name	Acer Veriton 3200
System S/N	N/A
Main Board ID	S58M
Main Board S/N	N/A
System BIOS Version	V4.0
SMBIOS Version	2.3
*System BIOS ID	R01-A0-EN
BIOS Release Date	Jan 03,00

NOTE: The asterisk (*) mark indicates that the parameter appears only when you are in the Advanced Level.

The Product Information menu contains general data about the system, such as the product name, serial number, BIOS version, etc. These information is necessary for troubleshooting (maybe required when asking for technical support).

The following table describes the parameters found in this menu:

Parameter	Description
Product Name	Displays the model name of your system.
System S/N	Displays your system's serial number.
Main Board ID	Displays the main board's identification number.
Main Board S/N	Displays your main board's serial number.
System BIOS Version	Specifies the version of your BIOS utility.
SMBIOS version	The System Management Interface (SM) BIOS allows you to check your system hardware components without actually opening your system. Hardware checking is done via software during start up. This parameter specifies the version of the SMBIOS utility installed in your system.
System BIOS ID	Specifies the version ID of the BIOS utility.
BIOS Release Date	Displays the release date of the BIOS utility.

Disk Drives

Select Disk Drives from the main menu to configure the drives installed in your system.

NOTE: The following screen shows the Disk Drives menu:

The asterisk (*) mark indicates that the parameter appears only when you are in the Advanced Level.

Disk Drives	
Floppy Drive A	[1.44 MB 3.5-inch]
Floppy Drive B	[None]
*IDE Primary Channel Master	
*IDE Primary Channel Slave	
*IDE Secondary Channel Master	
*IDE Secondary Channel Slave	

The following table describes the parameters found in this menu.

Parameter	Description	Options
Floppy Drive A / B	Allows you to configure your floppy drive	None 360 KB, 5.25-inch 1.2 MB, 5.25-inch 720 KB, 3.5-inch 1.44 MB, 3.5-inch 2.88 MB, 3.5-inch
IDE Primary Channel Master	Lets you configure the hard disk drive connected to the master port of IDE channel 1.	
IDE Primary Channel Slave	Lets you configure the hard disk drive connected to the slave port of IDE channel 1.	
IDE Secondary Channel Master	Lets you configure the hard disk drive connected to the master port of IDE channel 2.	
IDE Secondary Channel Slave	Lets you configure the hard disk drive connected to the slave port of IDE channel 2.	

The following screen appears if you select any of the IDE drive parameters:

IDE Primary Channel Master	
Device Detection Mode	[Auto]
Device Type	Hard Disk
Cylinder	[8354]
Head	[16]
Sector	[63]
Size	[4311] M.B.
Hard Disk LBA Mode	[Auto]
*Hard Disk Block Mode	[Auto]
*Hard Disk 32 Bit Access	[Enabled]
*Advanced PIO Mode	[Auto]
*DMA Transfer Mode	[Auto]

NOTE: The asterisk (*) mark indicates that the parameter appears only when you are in the Advanced Level.

IDE Primary Channel Slave	
Device Detection Mode	[Auto]
Device Type	None
Cylinder	[0]
Head	[0]
Sector	[0]
Size	[0] M.B.

IDE Secondary Channel Master	
Device Detection Mode	[Auto]
Device Type.....	None
Cylinder.....	[0]
Head.....	[0]
Sector.....	[0]
Size.....	[0] M.B.

IDE Secondary Channel Slave	
Device Detection Mode	[Auto]
Device Type	IDE CD-ROM
*Advanced PIO Mode	[Auto]
*DMA Transfer Mode	[Auto]

NOTE: The asterisk (*) mark indicates that the parameter appears only when you are in the Advanced Level.

The following table describes the parameters found in this menu.

Parameter	Description	Options
Device Detection Mode	Lets you specify the type of hard disk installed in your system. If you want BIOS to automatically configure your hard disk, select Auto. If you know your hard disk type, you can enter the setting manually. Setting this parameter also sets the Cylinder, Head, Sector, and Size parameters.	Auto , None, or User. The User setting allows you to enter your settings manually if you know your hard disk type. The Auto setting also sets the Cylinder, Head, Sector, and Size parameters.

Parameter	Description	Options
Device Type	Display the type of device installed.	Not configurable. The default is Hard Disk .
Cylinder	Specifies your hard disk's number of cylinders, and is automatically set depending on your Type parameter setting.	Only Device Detection Mode is set to User, the item Cylinder will be available; Otherwise it is non-configurable.
Head	Specifies your hard disk's number of heads, and is automatically set depending on your Type parameter setting.	Only Device Detection Mode is set to User, the item Head will be available; Otherwise it is non-configurable.
Sector	Specifies your hard disk's number of sectors, and is automatically set depending on your Type parameter setting.	Only Device Detection Mode is set to User, the item Sector will be available; Otherwise it is non-configurable.
Size	Specifies the size of your hard disk, in MB, and is automatically set depending on your Type parameter setting.	It will turn to gray and will be non- configurable.
Hard Disk LBA Mode	Set to "Auto" under DOS and Windows. Set to "Disabled" under Novell Netware and Unix.	Auto or Disabled
Hard Disk Block Mode	This function enhances disk performance depending on the hard disk in use. If you set this parameter to Auto, the BIOS utility automatically detects if the installed hard disk drive supports the Block Mode function. If supported, it allows data transfer in blocks (multiple sectors) at a rate of 256 bytes per cycle.	Auto or Disabled
Hard Disk 32-bit Access	Enabling this parameter improves system performance by allowing the use of the 32-bit hard disk access. This enhanced IDE feature works only under DOS, Windows 3.x, Windows 95/98, Windows NT, and Novell NetWare.	Enabled or Disabled
Advanced PIO Mode	When set to Auto, the BIOS utility automatically detects if the installed hard disk supports the function, it allows for faster data recovery and read/ write timing that reduces hard disk activity time. This results in better hard disk performance.	Auto , Mode 0, 1, 2, 3 or 4
DMA Transfer Mode	The Ultra DMA and Multi-DMA modes enhance hard disk performance by increasing the transfer rate. However, besides enabling these features in the BIOS Setup, both the Ultra DMA and Multi-DMA modes require the DMA driver to be loaded.	Auto Multiword Mode 0, 1, 2 Ultra Mode 0, 1, 2, 3, 4 Disabled

Onboard Peripherals

The Onboard Peripherals menu allows you to configure the onboard devices. Selecting this option from the main menu displays the following screen:

Onboard Peripherals		
Serial Port 1	[Enabled]	
Base Address	[3F8h]	
IRQ	[4]	
Serial Port 2	[Disabled]	
Base Address	[---]	
IRQ	[---]	
Parallel Port	[Enabled]	
Base Address	[378h]	
IRQ	[7]	
Operation Mode	[EPP]	
ECP DMA Channel	[-]	
Floppy Disk Controller	[Enabled]	
IDE Controller	[Both]	
PS/2 Mouse Controller	[Enabled]	
USB Host Controller	[Enabled]	
USB Legacy Mode	[Enabled]	
Onboard Audio Chip	[Enabled]	
Game Port Address	[201]	
Midi Port Address	[330]	
Midi Port IRQ	[5]	

The following table describes the parameters found in this menu.

Parameter	Description	Options
Serial Port 1	Lets you enable or disable the serial port 1.	Enabled or Disabled
Serial Port 2	Lets you enable or disable the serial port 2.	Disabled or Enabled
Base Address	Lets you set a logical base address for each serial port. This parameter is configurable only if the Serial Port parameter is enabled.	3F8h (for serial port 1), 2F8h (for serial port 2), 3E8h, 2E8h
IRQ	Lets you assign an interrupt for each serial port. This parameter is configurable only if the Serial Port parameter is enabled.	4 or 11(for serial port 1), 3 or 10 (for serial port 2)
Parallel Port	Lets you enable or disable the parallel port.	Enabled or Disabled
Base Address	Lets you set a logical base address for the parallel port. This parameter is configurable only if the Parallel Port parameter is enabled.	3BCh, 378h , 278h
IRQ	Lets you assign an interrupt for the parallel port. This parameter is configurable only if the Parallel Port parameter is enabled.	7 or 5
Operation Mode	Lets you set your parallel port's operation mode. This parameter is configurable only if the Parallel Port parameter is enabled.	Enhanced Parallel Port (EPP) Bidirectional Standard Parallel Port (SPP) Extended Capabilities Port (ECP)

Parameter	Description	Options
ECP DMA Channel	Allows you to assign a DMA channel for the ECP parallel port function. This parameter is configurable only if you select the Extended Capabilities Port (ECP) as the operation mode.	1 or 3
Floppy Disk Controller	Lets you enable or disable the onboard floppy disk controller.	Enabled or Disabled
IDE Controller	Lets you enable or disable the onboard primary, secondary or both IDE interfaces.	Both , Primary, or Disabled
PS/2 Mouse Controller	Lets you enable or disable the onboard PS/2 mouse controller	Enabled or Disabled
USB Host Controller	Lets you enable or disable the onboard USB host controller.	Enabled or Disabled
USB Legacy Mode	Lets you activate or deactivate the USB keyboard connected to your system. When activated, the USB keyboard functions in a DOS environment.	Enabled or Disabled
Onboard Audio Chip	Lets you enable or disable the onboard audio controller	Enabled or Disabled
Game Port Address	Sets the I/O base address of the game port.	201 , 209, or Disabled
Midi Port Address	Sets the I/O base address of the midi port.	330 , 300, or Disabled
Midi Port IRQ	Sets the IRQ channel of the midi port.	5 or 10

Power Management

The Power Management menu lets you configure the system power-management feature. It works only under APM mode.

IMPORTANT: If an ACPI-aware operating system such as Windows 98 or Windows 2000 is installed in ACPI mode, the operating system will use the ACPI interfaces. Then the settings in Power Management page is non-effective.

The following screen shows the Power Management parameters and their default settings:

Power Management	
Power Management Mode	[Enabled]
IDE Hard Disk Standby Timer	[OFF]
System Sleep Timer	[OFF]
Sleep Mode	[-----]
Power Switch < 4 sec	[Suspend]
System wake-up event	
Modem Ring Indicator	[Disabled]
PCI Power Management	[Enabled]
RTC Alarm	[Disabled]
Resume Day	[--]
Resume Time	[--:--:--]
Restart on AC/Power Failure	[Disabled]
ACPI Sleep State	[S1]

The following table describes the parameters found in this menu.

Parameter	Description	Options
Power Management Mode	Allows you to reduce the system's power consumption. When enabled, the IDE hard disk and system timers become configurable.	Enabled or Disabled
IDE Hard Disk Standby Timer	Allows the hard disk to enter Standby mode after inactivity of 1 to 15 minutes, depending on your setting.	Off or 1 to 15 minutes
System Sleep Timer	Automatically puts the system to power-saving mode after a specified period of inactivity. Any keyboard or mouse action, or any activity detected from the IRQ channels resumes system operation.	Off, or 2, 5, 10, 15, 20, 30, 40, 50...120 minutes
Sleep Mode	Lets you specify the power-saving mode that the system will enter after a specified period of inactivity. This parameter is configurable only if the System Sleep Timer is enabled.	Suspend or Standby

Parameter	Description	Options
Power Switch < 4 sec.	Lets you specify whether to automatically turn off the machine or put the system to Suspend mode when the power switch is pressed for less than 4 seconds.	Suspend or Power Off
System Wake-up Event	Lets you specify the activity that will resume the system to normal operation.	
Modem Ring Indicator	Wakes the system from Sleep mode once any fax/modem activity is detected.	Disabled or Enabled
PCI Power Management	Allows the system to be awoken by the PME function.	Enabled or Disabled
RTC Alarm	Allows you to set a certain time on a certain day to wake-up your system from suspend mode.	Disabled or Enabled
Resume Day	If RTC alarm is enabled, the system will resume operation at the time indicated here.	User Input
Resume Time	If RTC alarm is enabled, the system will resume operation at the time indicated here.	User Input
Restart on AC/ Power Failure	When power failure occurs, your system automatically stops functioning. Setting this parameter to Enabled lets you set your computer to automatically turn on once power resumes. The Disabled setting leaves the computer off.	Disabled or Enabled
ACPI Sleep State	When set to S1, system enters standby mode when power management mode is enabled. When set to S3, system enters suspend to RAM mode.	S1 or S3

Boot Options

This option allows you to specify your preferred settings for bootup.

The following screen appears if you select Boot Options from the main menu:

Boot Options	
Boot Sequence	
1st. [IDE CD-ROM]	
2nd. [Floppy Disk A:]	
3rd. [Hard Disk C:]	
4th. [Intel ® Boot Agent Version 3.0]	
Primary Display Adapter..... [Auto]	
Fast Boot [Auto]	
Silent Boot [Enabled]	
Num Lock After BOOT [Enabled]	
Memory Test [Disabled]	
*Configuration Table [Enabled]	
Update BIOS with Boot Block [Disabled]	
Network Boot ROM [Disabled]	
Language Type [English]	

NOTE: The asterisk (*) mark indicates that the parameter appears only when you are in the Advanced Level.

The following table describes the parameters found in this menu.

Parameter	Description	Options
Boot Sequence	Allows you to specify the boot search sequence.	IDE CD-ROM Floppy Disk Hard Disk Intel (R) Boot Agent Version 3.0 (boot from LAN)
Primary Display Adapter	Lets you activate the onboard video controller as your primary adapter, or automatically disable it once BIOS detects that there is a video card installed in your system.	Auto or Onboard
Fast Boot	Allows you to define your system's booting process, whether to skip some POST routines or proceed with the normal booting process.	Auto or Disabled

Parameter	Description	Options
Silent Boot	When enabled, BIOS is in graphical mode and displays only an identification logo during POST and while booting. Then, the screen displays the operating system prompt (as in DOS) or logo (as in Windows). If any error occurs while booting, the system automatically switches to the text mode. You may also switch to the text mode while booting by pressing F9 after you hear a beep that indicates the activation of the keyboard.	Enabled or Disabled
Num Lock After Boot	Allows you to activate or deactivate the Num Lock function upon booting.	Enabled or Disabled
Memory Test	Lets you specify whether you want BIOS to perform or bypass the memory test. This parameter is only available when Fast Boot is disabled.	Disabled or Enabled
Configuration Table	This parameter allows you to enable or disable the display of the configuration table after POST but before booting. The configuration table gives a summary of the hardware devices and settings that BIOS detected during POST.	Enabled or Disabled
Update BIOS w/ Boot Block	When enabled, it automatically flashed the BIOS file from the hard disk drive in case the system fails to boot up.	Disabled or Enabled
Network Boot ROM	Allows you to enable or disable the control of the local area network (LAN) BIOS. Setting this parameter to Disabled speeds up the booting of the computer.	Disabled or Enabled
Language Type	Select the language.	English or Japanese

Date and Time

The following screen appears if you select the Date and Time option from the main menu:

Date and Time	
Date	[Mon Jan 03, 2000]
Time	[HH:MM:SS]

The following table describes the parameters found in this menu:

Parameter	Description	Options
Date	Lets you set the date following the weekday-month-day-year format.	Weekday: Sun, Mon, Tue, Wed, Thu, Fri, Sat Month: Jan, Feb...Dec Day: 1 to 31 Year: 1980 to 2099
Time	Lets you set the time following the hour-minute-second format.	Hour: 0 to 23 Minute: 0 to 59 Second: 0 to 59

System Security

The Setup program has a number of security features to prevent unauthorized access to the system and its data.

The following screen appears if you select System Security from the main menu:

System Security	
Supervisor Password	[None]
User Password	[----]
Password on Boot	[----]
Disk Drive Controller	
Floppy Drive	[Normal]
Hard Disk Drive	[Normal]
Processor Serial Number	[Disabled]

The following table describes the parameters found in this menu.

Parameter	Description	Options
Supervisor Password	Prevents unauthorized access to the BIOS utility.	None or Present. The Present setting allows you to set a Setup password. For instructions on how to set a Setup password, refer to "Setting a Password" on page 38.
User Password	Secures your system against unauthorized use. Once you set this password, you have to type it whenever you boot the system.	
Password on Boot	Allows you to protect your User Password. When enabled, retype the password then press enter .	Disabled or Enabled
Disk Drive Controller	Allows you to protect your system's floppy drive and hard disk data from being modified (possible under DOS mode only).	
Floppy Drive	Protects your floppy drive data from being modified.	Normal , Write Protect All Sectors, Write Protect Boot Sectors
Hard Disk Drive	Protects your hard disk data from being modified.	Normal , Write Protect All Sectors, Write Protect Boot Sectors
Processor Serial Number		

Setting a Password

3. Enter the BIOS utility and select "System Security".
4. Highlight the "Supervisor Password" parameter to set a Setup password, or "User Password" to set a power-on password. Then press the left or right arrow key. The following screen appears:

Supervisor Password
Enter your Password twice. The Password may be up to 7 characters long.
Enter Password [□□□□□□□]
Enter Password again [□□□□□□□]
Set or Change Password

5. Type a password. The password may consist of up to seven characters. Then press **Enter**.
6. Retype the password then press **Enter**.
7. After setting the password, highlight the "Set or Change Password" option.
8. Press **Esc** to return to the System Security screen. If you have set a Supervisor password (and/or User password), the Supervisor Password (and/or User password) setting automatically changes to **Present**.
9. Press **Esc** to return to the Main menu.
10. Press **Esc** to exit the BIOS utility. A dialog box appears asking if you want to save the CMOS data.
11. Select "Yes" to save the changes and reboot the system.

If you have set a Supervisor password, the next time you want to enter the BIOS utility, you must key-in your Supervisor password.

If you have set a User password, you will be prompted to enter that password every time you boot your system.

Changing or Removing the Password

If you want to **change one of your passwords**, do the following:

1. Enter the BIOS utility and select "System Security".
2. Highlight the "Supervisor Password" parameter (for Supervisor password) or the "User Password" parameter (a Supervisor Password must be set first before you can change the User password). The Password menu appears.
3. From the Password menu, highlight the "Set or Change Password" option.
4. Enter a new password.
5. Press **Esc** to return to the System Security screen.
6. Press **Esc** to return to the main menu.
7. Press **Esc** to exit the BIOS utility. A dialog box appears asking if you want to save the CMOS data.
8. Select "Yes" to save the changes.

To remove the password, simply select the "Supervisor Password" parameter (for Supervisor password) or the "User Password" parameter (a Supervisor Password must be set first before you can change the User password) from the System Security menu and set it to "None".

Bypassing the Password

If you forgot your password, you can bypass the password security feature thru hardware configuration.

RTC Battery

Follow these steps to bypass the password:

1. Turn off and unplug the system.
2. Open the system housing. Take off battery and short it.
3. Place on RTC battery, reboot the system and enter setup menu, to load default setting.

Clear CMOS

Follow these steps to bypass the password:

1. Reset CMOS, by adjusting JPX1 to **1-2**
2. Reboot the system.
3. Adjust the JPX1 back to **2-3**

Password Check

Follow the step to bypass the password:

1. Adjust JPXB to **2-3**

Advanced Options

NOTE: The Advanced Options menu is only available if you press **F8** or **Alt + F4** in the main menu.

The “Advanced Options” menu allows you to configure the system memory and PCI device settings.

The following screen shows the Advanced Options parameters:

Advanced Options
• Memory/Cache Options • PnP/PCI Options

CAUTION: Do not change any settings in the Advanced Options menu if you are not a qualified technician to avoid damaging the system.

Memory/Cache Options

Selecting “Memory/Cache Options” from the Advanced Options menu displays the following screen:

This menu lets you configure the system memory.

Memory/Cache Options
Level 1 Cache [Enabled]
Level 2 Cache [Enabled]
Memory at 15MB-16MB Reserved for [System]
CPU frequency Multiplier[3X]

The following table describes the parameters found in this sub-menu.

Parameter	Description	Options
Level 1 Cache (processor Cache)	Lets you enable or disable the primary cache memory, i.e., the processor memory.	Enabled or Disabled
Level 2 Cache	Lets you enable or disable the secondary cache memory.	Enabled or Disabled

Parameter	Description	Options
Memory at 15MB-16MB Reserved for	To prevent memory address conflicts between the system and expansion boards, reserve this memory range for the use of either the system or an expansion board. Some VGA cards have required settings for this feature. Check your VGA card manual before setting this parameter.	System or Expansion board
CPU Frequency Multiplier	Sets the Core/bus ratio of your system. The clock speed of the bus does not necessarily equal the CPU's (core). The bus clock speed is often slower than the CPU clock speed.	3X, 3.5X, 4X, 4.5X.....8X

PnP/PCI Options

The PnP/PCI Options menu allows you to specify the settings for your PCI devices. Selecting this option displays the following screen:

PnP/PCI Options				
PCI IRQ Setting [Auto]				
	INTA	INTB	INTC	INTD
PCI Slot 1	[--]	[--]	[--]	[--]
PCI Slot 2	[--]	[--]	[--]	[--]
PCI Slot 3	[--]	[--]	[--]	[--]
PCI IRQ Sharing [Yes]				
VGA Palette Snoop [Disabled]				
Graphics Aperture Size [64] MB				
Plug and Play OS [Yes]				
Reset Resource Assignments [No]				

The following table describes the parameters found in this sub-menu.

Parameter	Description	Options
PCI IRQ Setting	Select Auto to let BIOS automatically configure the plug-and-play (PnP) devices installed in your system. Otherwise, select Manual. Note: Refer to your PCI card manual for technical information.	Auto or Manual
PCI Slot 1	When you set the PCI IRQ Setting parameter to Auto, these parameters specify the auto-assigned interrupt for each of the PCI devices. If you set the PCI IRQ Setting parameter to Manual, you need to specify the interrupt that you want to assign for each PCI device installed in your system.	User input
PCI IRQ Sharing	Setting this parameter to Yes allows you to assign the same IRQ to two different devices. To disable the feature, select No. Note: If there are no IRQs available to assign for the remaining device function, we recommend that you enable this parameter.	Yes or No
VGA Palette Snoop	This parameter permits you to use the palette snooping feature if you installed more than one VGA card in the system. The VGA palette snoop function allows the control palette register (CPR) to manage and update the VGA RAMDAC (Digital Analog Converter, a color data storage) of each VGA card installed in the system. The snooping process lets the CPR send a signal to all the VGA cards so that they can update their individual RAMDACs. The signal goes through the cards continuously until all RAMDAC data has been updated. This allows the display of multiple images on the screen. Note: Some VGA cards have required settings for this feature. Check your VGA card manual before setting this parameter.	Disabled or Enabled

Parameter	Description	Options
Graphics Aperture Size	This parameter determines the effective size of the graphics aperture. Graphics aperture is the address range that the AGP video and the CPU use to manage graphical objects. The lowest setting is 8 MB and the highest is 256 MB.	User input
Plug and Play OS	When this parameter is set to Yes, BIOS initializes only PnP boot devices such as SCSI cards. When set to No, BIOS initializes all PnP boot and non-boot devices such as sound cards. Note: Set this parameter to Yes only if your operating system is Windows 95/98/2000.	Yes or No
Reset Resource Assignments	Set this parameter to Yes to avoid IRQ conflict when installing non-PnP or PnP ISA cards. This clears all resource assignments and allows BIOS to reassign resources to all installed PnP devices the next time the system boots. After clearing the resource data, the parameter resets to No.	No or Yes

Chipset Settings

The Chipset Settings will be shown only if you press **Alt + F4** in main menu:

Advanced Options
• Memory/Cache Options • PnP/PCI Options • *Chipset Settings

Press Enter to view the Chipset settings information.

The following screen displays the Chipset settings menu:

Chipset Settings	
• Spread Spectrum [Enabled] • ICH Audio Codec [Enabled] • ICH SMBUS Controller [Enabled] • Delay Transaction [Enabled] • Determine DIMM Frequency [Auto]	

Parameter	Description	Options
Spread Spectrum	This parameter lets you enable or disable the spread spectrum.	Enabled or Disabled
ICH Audio Codec	This parameter lets you enable or disable the ICH Audio Codec.	Enabled or Disabled
ICH SMBUS Controller	This parameter lets you enable or disable the ICH SMBUS controller.	Enabled or Disabled
Delay Transaction	This parameter lets you enable or disable delay transaction.	Enabled or Disabled
Determine DIMM Frequency	This parameter lets you set the frequency of DIMM.	Auto, PC100 or PC133

Load Default Settings

You need to reload the BIOS default settings every time you make changes to your system hardware configuration (such as memory size, CPU type, hard disk type, etc.); otherwise, BIOS will keep the previous CMOS settings. Selecting this option displays the following dialog box:

Load Default Settings	
Do you want to load default settings?	
[Yes]	*[No]

Choosing Yes enables BIOS to automatically detect the hardware changes that you have made in your system. This option also allows you to restore the default settings.

Choosing No returns you to the main menu without loading the default settings.

Abort Settings Change

Selecting the Abort Settings Change option from the main menu displays the following dialog box:

Abort Settings Change	
Do you really want to abort settings change?	
*[Yes]	[No]

Choosing Yes discards all the changes that you have made and reverts the parameters to their previously saved settings.

Choosing No returns you to the main menu. BIOS retains all changes that you have made.

Exiting Setup

To exit the BIOS utility, simply press **Esc**. The following dialog box appears:

Exit Setup
Settings have been changed. Do you really want to exit setup?
*[Yes] [No]

Select Yes to exit Setup. Select No to return to the main menu.

Exit Setup
Settings have been changed. Do you want to save CMOS settings?
*[Yes] [No]

If you have made changes in the parameter settings, you will be asked if you want to keep the changes made to the BIOS. Select Yes to save your changes before you exit Setup. Select No to discard all changes and exit Setup.

Machine Disassembly and Replacement

This chapter contains step-by-step procedures on how to disassemble the Veriton 3200 desktop computer for maintenance and troubleshooting.

To disassemble the computer, you need the following tools:

- ☐ Wrist grounding strap and conductive mat for preventing electrostatic discharge
- ☐ Flat-bladed screwdriver
- ☐ Phillips screwdriver
- ☐ Hexagonal screwdriver
- ☐ Plastic stick

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatches when putting back the components.

General Information

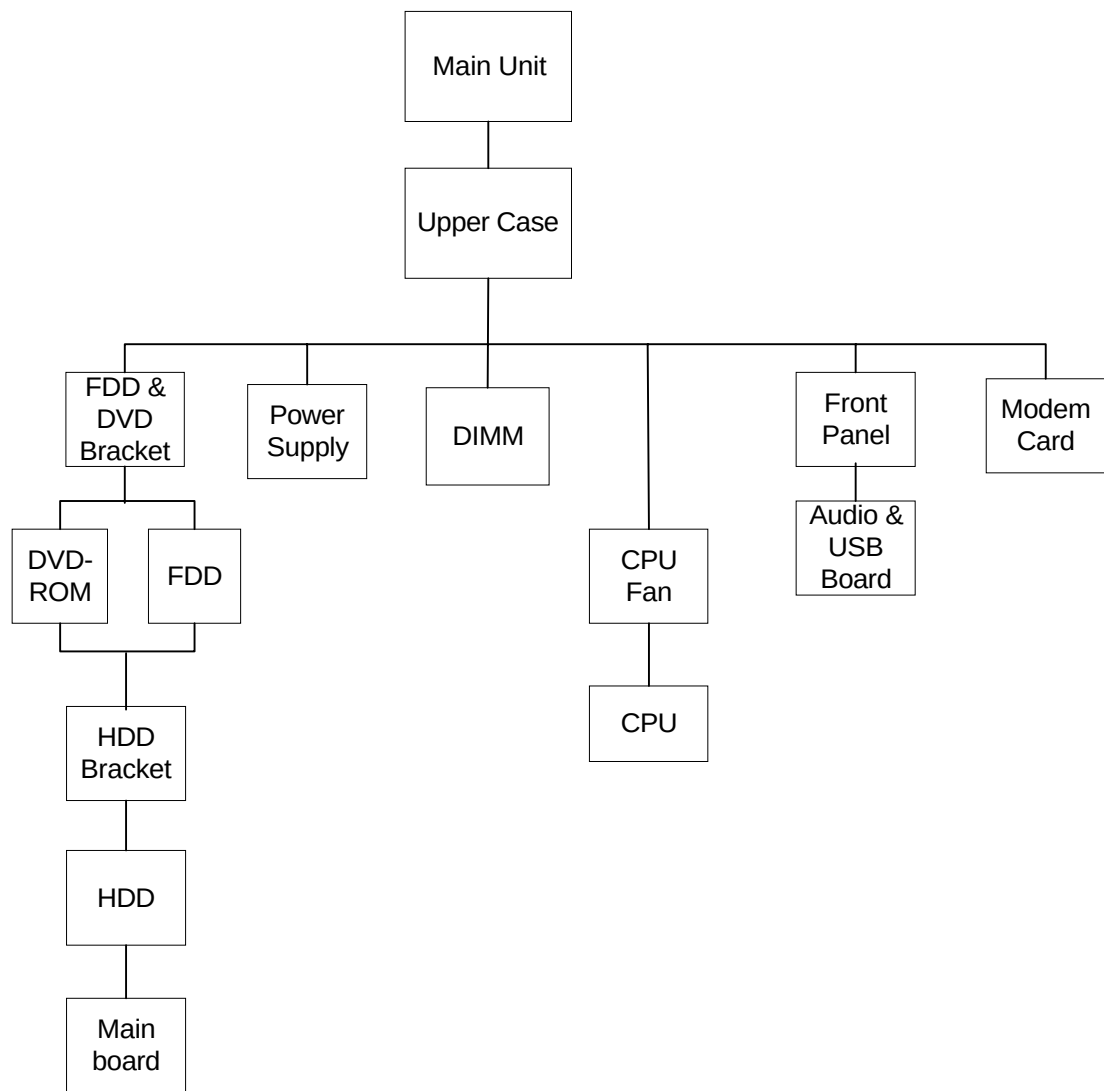
Before You Begin

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.

Disassembly Procedure Flowchart

The flowchart on the succeeding page gives you a graphical representation on the entire disassembly sequence and instructs you on the components that need to be removed during servicing.



Opening the Housing

This section tells you how to open the housing cover when you need to install additional components inside the system unit.

CAUTION: Before you proceed, make sure that you have turned off the system and all peripherals connected to it.

Removing the Housing Cover

1. Place the system unit on a flat, steady surface.



2. Turn the housing back.



3. Remove the two screws using a screw driver from the rear panel as shown here. Set the screws aside, you will need them when replacing the right panel of the unit.



4. Slide the upper case back out about an inch and then gently pull it outward to detach it from the housing.



Removing the Front Panel

1. See “Opening the Housing” on page 51
2. Detach the front bezel from the front panel gently.



3. Detach the front bezel from the front panel gently.



Removing the EMI Audio Cover

1. See “Opening the Housing” on page 51
2. See “Removing the Front Panel” on page 52
3. Remove the EMI audio cover from the lower case.



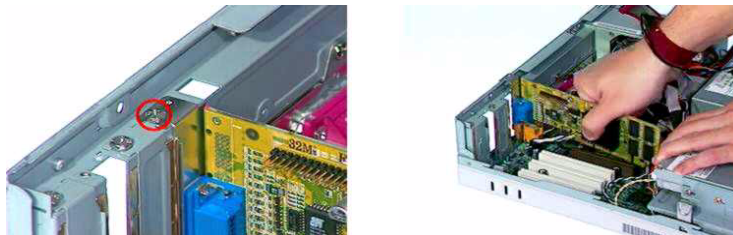
Removing the Modem Card

1. See “Opening the Housing” on page 51
2. Remove the screw as shown below and then remove the modem card from the slot.



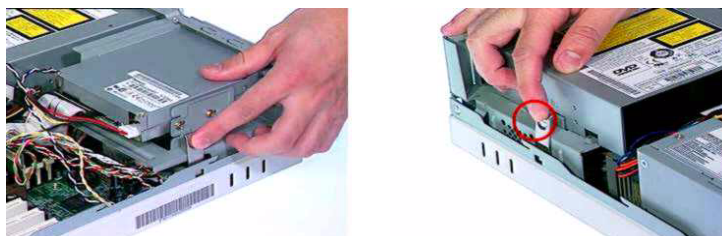
Removing the AGP VGA Card

1. See “Opening the Housing” on page 51
2. Remove the screw as shown here and then remove the AGP VGA card from the slot.



Removing the FDD and DVD Frame

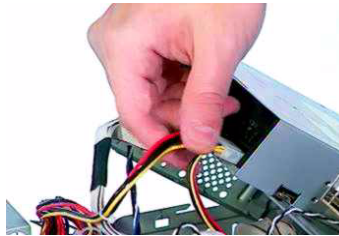
1. See “Opening the Housing” on page 51
2. Push the two latches of both sides then lift up the FDD and DVD frame.



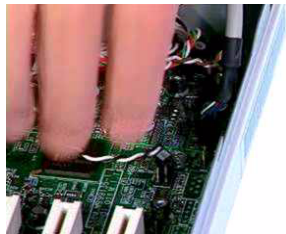
-
3. Disconnect the power and floppy disk drive cables from the floppy disk drive.



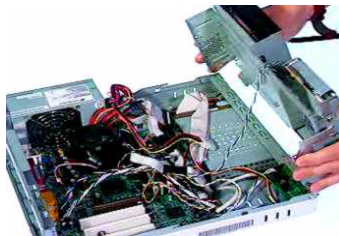
4. Disconnect the power cable, IDE cable, and audio cable from the DVD-ROM drive.



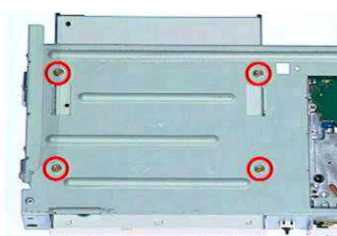
5. Disconnect the micro switch cable from the main board.



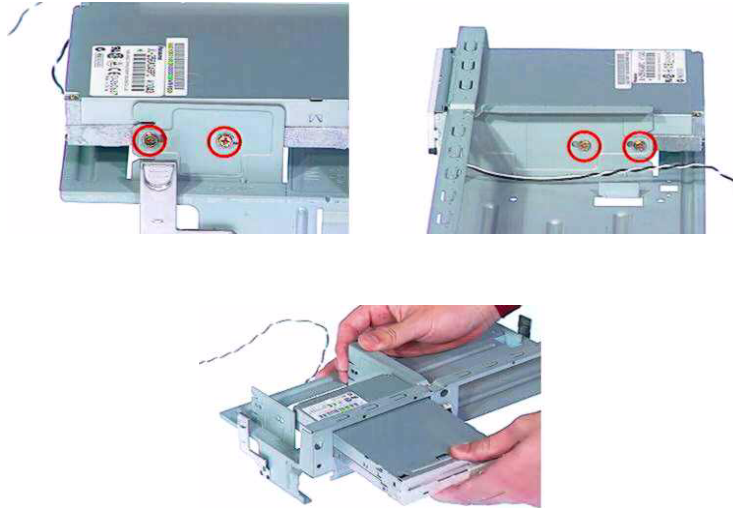
6. Pull the FDD and DVD frame from the lower case.



7. Remove the four screws as shown here then detach the DVD-ROM drive from the frame.



-
8. Remove the four screws as shown here then detach the floppy disk drive from the frame.



9. Disconnect micro switch cable from the FDD and DVD frame.

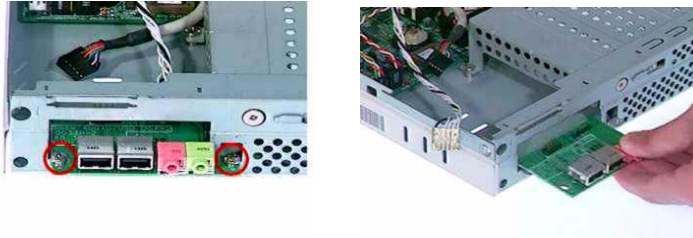


Removing the USB and Audio Board

1. See “Opening the Housing” on page 51
2. See “Removing the Front Panel” on page 52
3. See “Removing the EMI Audio Cover” on page 52
4. Disconnect the USB board cable and audio board cable from the USB and audio board.



-
5. Remove the two screws as shown here then detach the USB and audio board from the lower case.

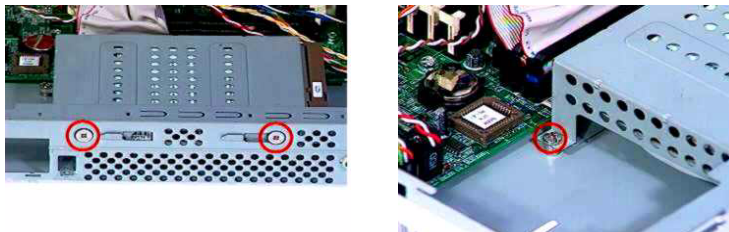


Removing the Hard Disk Drive

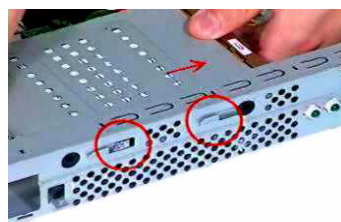
1. See “Opening the Housing” on page 51
2. See “Removing the FDD and DVD Frame” on page 53
3. Disconnect the IDE cable and HDD power cable from the hard disk drive.



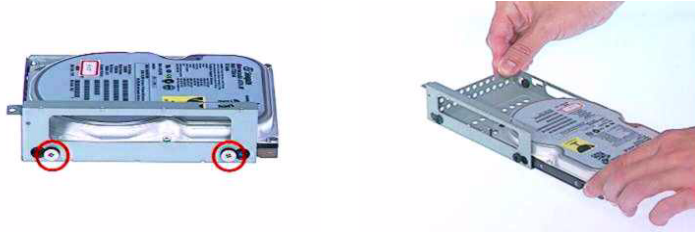
4. Remove the three screws as shown here and then hold the hard disk drive frame.



5. Slide the hard disk drive frame to the right and then gently move it inward to detach it from the lower case.

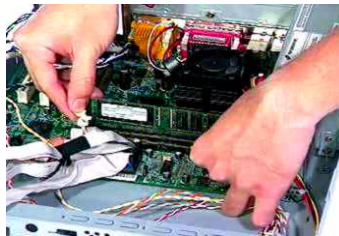


-
6. Remove the two screws as shown and then detach the hard disk drive from the frame.



Removing the DIMM

1. See “Opening the Housing” on page 51
2. To release the system memory, press down and out on the levers on both sides of the DIMM socket.



3. Gently pull the DIMM out of the socket.



Removing the Power Supply

1. See “Opening the Housing” on page 51
2. Remove the four screws as shown here.



-
3. Gently remove the power supply from the system.

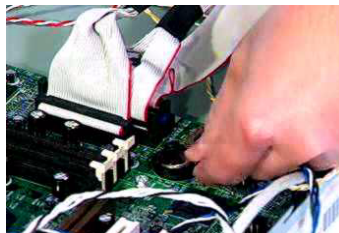


4. Disconnect the power cable from the main board.



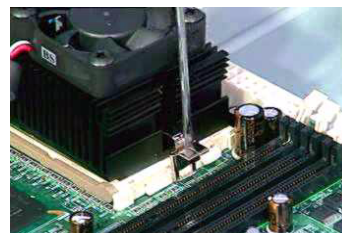
Removing the RTC Battery

1. See “Opening the Housing” on page 51
2. To remove the RTC battery from the holder, gently remove it from the holder by hand.



Removing the Processor

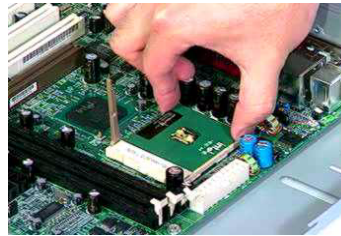
1. See “Opening the Housing” on page 51
2. Disconnect the fan/heatsink cable from the main board and then insert a flat screw driver into the fan/heatsink metal bracket.



3. Press down and pry the screwdriver outward to detach the metal bracket from the socket.

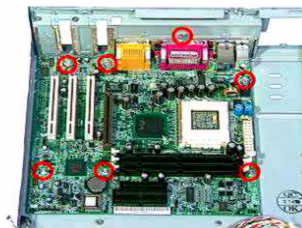


4. Lift up the socket lever and then pull the CPU out from the socket carefully.



Removing the Main board

1. See “Opening the Housing” on page 51
2. See “Removing the FDD and DVD Frame” on page 53
3. Remove the seven screws as shown here then detach the main board from the lower case.



Troubleshooting

This chapter provides troubleshooting information for the Veriton 3200:

- ☐ Power-On Self-Test (POST)
- ☐ Index of Error Messages
- ☐ Index of Error Codes and Error Beeps
- ☐ Index of Error Symptoms
- ☐ Undetermined Problems

Power-On Self-Test (POST)

Each time you turn on the system, the Power-on Self Test (POST) is initiated. Several items are tested during POST, but is for the most part transparent to the user.

The Power-On Self Test (POST) is a BIOS procedure that boots the system, initializes and diagnoses the system components, and controls the operation of the power-on password option. If POST discovers errors in system operations at power-on, it displays error messages on screen, generates a check point code at port 80h or even halts the system if the error is fatal.

The main components on the main board that must be diagnosed and/or initialized by POST to ensure system functionality are as follows:

- ☐ Microprocessor with built-in numeric co-processor and cache memory subsystem
- ☐ Direct Memory Access (DMA) controller
- ☐ Interrupt system
- ☐ Three programmable timers
- ☐ ROM subsystem
- ☐ RAM subsystem
- ☐ RTC RAM subsystem and real time clock/calendar with battery backup
- ☐ Onboard serial interface controller
- ☐ Onboard parallel interface controller
- ☐ Embedded hard disk interface and one diskette drive interface
- ☐ Keyboard and auxiliary device controllers
- ☐ I/O ports
 - ☐ PS/2-compatible mouse port
 - ☐ PS/2-compatible keyboard port
- ☐ Serial ports
- ☐ Parallel ports
- ☐ USB port

POST Error Messages List

If you cannot run the diagnostics program tests but did receive a POST error message, use “POST Error Messages List” to diagnose system problems. If you did not receive any error message, look for a description of your error symptoms in “Error Symptoms List” on page 64.

NOTE: When you have deemed it necessary to replace an FRU, and have done so, you must run a total system check to ensure that no other activity has been affected by the change. This system check can be done through the diagnostics program.

NOTE: Check all power supply voltages, switch, and jumper settings before you replace the main board. Also check the power supply voltages if you have a “system no-power” condition.

If you are unable to correct the problem by using the “BIOS Messages List” table and “Error Symptoms List” table, go to “Undetermined Problems” on page 68.

NOTE: To diagnose a problem, first find the BIOS error messages in the left column. If directed to a check procedure, replace the FRU indicated in the check procedure. If no check procedure is indicated, the first Action/FRU listed in right column is the most likely cause.

BIOS Messages	Action/FRU
I/O Parity Error	1. Main board
CPU Clock Mismatch	1. Enter BIOS Setup and load the default settings. 2. Ensure BIOS setting for processor is set correctly.
Real Time Clock Error CMOS Battery Bad CMOS Checksum Error	1. Enter BIOS Setup and load the default settings. 2. RTC Battery. 3. Main board.
Equipment Configuration Error	1. Ensure the system configuration set in BIOS Setup is correct. 2. Enter BIOS Setup and load the default settings. 3. RTC battery. 4. Main board.
System Management Memory Bad Memory Error at MMMM:SSSS:OOOOh	1. Insert the memory modules in the DIMM sockets properly, then reboot the system. 2. Memory module. 3. Main board.
RAM Parity Error	1. Enter BIOS Setup to disable parity check. 2. Memory module 3. Main board
PS/2 Keyboard Error or Keyboard Not Connected PS/2 Keyboard Interface Error PS/2 Keyboard Locked	1. Re-connect PS/2 keyboard and mouse. 2. Enter BIOS Setup and load the default settings. 3. PS/2 keyboard 4. PS/2 mouse 5. Main board
Onboard xxx... Conflict(s)	1. Enter BIOS Setup and load the default settings. 2. Remove all adapter cards that are NOT factory-installed, then reboot the system.
Floppy Disk Controller Error Floppy Drive A Error Floppy Drive B Error	1. Diskette drive cable/connection. 2. Diskette drive. 3. Main board
On Board Parallel Port Conflict(s) On Board Serial Port 1 Conflict(s) On Board Serial Port 2 Conflict(s)	1. Enter BIOS Setup and load the default settings. 2. Remove all adapter cards that are NOT factory-installed, then reboot the system.
Floppy Drive(s) Write Protected Hard Disk Drive(s) Write Protected	1. Ensure that the diskette drive is not set to [Write Protected] in the Security Options in BIOS Setup. 2. Load default settings in Setup.

BIOS Messages	Action/FRU
IDE Drive 0 Error IDE Drive 1 Error IDE Drive 2 Error IDE Drive 3 Error	1. Enter BIOS Setup and load the default settings. 2. Check IDE drive jumper. 3. IDE hard disk drive power. 4. IDE hard disk drive cable/connection. 5. IDE hard disk drive.
IRQ Setting Error Expansion ROM Allocation Fail I/O Resource Conflict(s) Memory Resource Conflict(s)	1. Load default settings in Setup. 2. Enter BIOS Setup and set the Reset Resource Assignments of the PnP/PCI Options to Yes, then reboot the system. 3. Remove all adapter cards that are NOT factory-installed, then reboot the system
PCI Device Error	1. Load default settings in Setup. 2. Enter BIOS Setup and set the Reset Resource Assignments of the PnP/PCI Options to Yes, then reboot the system. 3. Remove all adapter cards that are NOT factory-installed, then reboot the system.
PS/2 Pointing Device Interface Error PS/2 Pointing Device Error	1. Re-connect PS/2 keyboard and mouse. 2. Enter BIOS Setup and load the default settings. 3. PS/2 mouse 4. PS/2 keyboard 5. Main board
DMI Table Was Destroyed	1. Flash BIOS
Press Ctrl + Alt + Esc key to enter Setup or F1 key to continue	1. Press Ctrl+Alt+Del to enter Setup and reconfigure the system.
Press Esc to turn off NMI, or any key to reboot	1. Press Esc to reject NMI error or press any other key to reboot the system.
Insert system diskette and press <Enter> key to reboot	1. Insert a bootable disk into the floppy disk drive or remove this disk if a hard disk is installed.

Error Symptoms List

NOTE: To diagnose a problem, first find the error symptom in the left column. If directed to a check procedure, replace the FRU indicated in the check procedure. If no check procedure is indicated, the first Action/FRU listed in right column is the most likely cause.

Error Symptom	Action/FRU
Processor / Processor Fan	
NOTE: Normally, the processor fan should be operative, and the processor clock setting should be exactly set to match its speed requirement before diagnosing any processor problems.	
Processor fan does not run but power supply fan runs.	1. Ensure the system is not in power saving mode. See "Power Management" in chapter 2. 2. With the system power on, measure the voltage of processor fan connector. Its reading should be +12Vdc. 3. Main board.
Processor test failed.	1. Processor. 2. Main board.
Main board and Memory	
NOTE: Ensure the memory modules are installed properly and the contact leads are clean before diagnosing any system problems.	
Memory test failed.	1. See "Memory" 2. Main board
Incorrect memory size shown or repeated during POST.	1. Insert the memory modules in the DIMM sockets properly, then reboot the system. 2. Memory module. 3. Main board.
System works but fails to enter power saving mode when the Power Management Mode is set to Enabled, and power saving timer set in BIOS has elapsed.	1. Enter BIOS Setup and load default settings. In Windows 98, check settings in Power Management Property of Control Panel. 2. Reload software from Recovery CD.
System hangs before system boot.	1. See "Index of Symptoms" 2. See "Undetermined Problems"
System hangs after system boot.	1. Execute a system test and set it to stop at "Halt on Error" to see the potential cause of the problem. 2. See "Undetermined Problems".
Blinking cursor only; system does not work.	1. Diskette/IDE drive connection/cables 2. Diskette/IDE disk drives 3. See "Undetermined Problems". 4. Main board
Diskette Drive	
NOTE: Ensure the diskette drive is configured correctly in BIOS Setup and its read/write head is clean before diagnosing any diskette drive problems.	
Media and drive are mismatched.	1. Ensure the diskette drive is configured correctly in the Disk Drives of BIOS Setup. 2. Ensure the diskette drive is correctly formatted. 3. Diskette drive connection/cable 4. Diskette drive 5. Main board
Diskette drive does not work.	1. Ensure the diskette drive is not set to None in the Disk Drives of BIOS Setup. 2. Diskette drive power 3. Diskette drive connection/cable 4. Diskette drive 5. Main board

Error Symptom	Action/FRU
Diskette drive read/write error.	1. Diskette. 2. Ensure the diskette drive is not set to Write protect in the Security Options of BIOS Setup. 3. Diskette drive cable. 4. Diskette drive. 5. Main board.
Diskette drive LED comes on for more than 2 minutes when reading data.	1. Diskette 2. Diskette drive connection/cable 3. Diskette drive 4. Main board
Diskette drive LED fails to light, and the drive is unable to access for more than 2 minutes.	1. Diskette 2. Diskette drive power 3. Diskette drive connection/cable 4. Diskette drive 5. Main board
Diskette drive test failed.	1. Diskette 2. Diskette drive 3. Diskette drive cable 4. Main board
Hard Disk Drive	
NOTE: Ensure hard disk drive is configured correctly in BIOS Setup, cable/jumper are set correctly before diagnosing any hard disk drive problems.	
Hard disk drive test failed.	1. Enter BIOS Setup and Load default settings. 2. Hard disk drive cable. 3. Hard disk drive. 4. Main board.
Hard disk drive cannot format completely.	1. Enter BIOS Setup and Load default settings. 2. Hard disk drive cable. 3. Hard disk drive. 4. Main board.
Hard disk drive has write error.	1. Enter BIOS Setup and Load default settings. 2. Hard disk drive.
Hard disk drive LED fails to light, but system operates normally.	1. With the system power on, measure the voltage of hard disk LED connector. 2. Hard drive LED cable.
CD/DVD-ROM Drive	
NOTE: Ensure CD/DVD-ROM drive is configured correctly in BIOS Setup, cable/jumper are set correctly and its laser beam is clean before diagnosing any CD/DVD-ROM drive problems.	
CD/DVD-ROM drive LED doesn't come on but works normally.	1. CD/DVD-ROM drive
CD/DVD-ROM drive LED flashes for more than 30 seconds before LED shutting off. Software asks to reinstall disc. Software displays a reading CD/DVD error.	1. CD/DVD-ROM may have dirt or foreign material on it. Check with a known good disc. 2. CD/DVD-ROM is not inserted properly. 3. CD/DVD-ROM is damaged.
CD/DVD-ROM drive cannot load or eject when the system is turned on and its eject button is pressed and held.	1. Disconnect all cables from CD/DVD-ROM drive except power cable, then press eject button to try to unload the disk. 2. CD/DVD-ROM drive power. 3. CD/DVD-ROM drive
CD/DVD-ROM drive does not read and there are no messages are displayed.	1. CD may have dirt or foreign material on it. Check with a known good disc. 2. Ensure the CD/DVD-ROM driver is installed properly. 3. CD/DVD-ROM drive.
CD/DVD-ROM drive can play audio CD but no sound output.	1. Ensure the headphone jack of the CD/DVD-ROM has an output. 2. Turn up the sound volume. 3. Speaker power/connection/cable. 4. CD/DVD-ROM drive.

Error Symptom	Action/FRU
Real-Time Clock	
Real-time clock is inaccurate.	1. Ensure the information in the Date and Time of BIOS Setup is set correctly. 2. RTC battery. 3. Main board
Audio	
Audio software program invokes but no sound comes from speakers.	1. Speaker power/connection/cable.
Modem	
Modem ring cannot wake up system from suspend mode.	1. Ensure the Modem Ring Indicator in BIOS Setup or Power Management is set to Enabled. 2. If PCI modem card is used, reinsert the modem card to PCI slot firmly or replace the modem card. 3. If ISA modem card is used, ensure the modem ring-in cable from the modem card to main board is connected properly. 4. In Win 98, ensure the telephone application is configured correctly for your modem and set to receive messages and/or fax.
Data/fax modem software program invokes but cannot receive/send data/fax	1. Ensure the modem card is installed properly.
Fax/voice modem software program invokes but has no sound output. (Data files are received normally; voice from modem cannot be produced, but system sound feature works normally.)	1. Ensure the modem voice-in cable from modem adapter card to main board
Video and Monitor	
Video memory test failed. Video adapter failed.	1. Remove all non-factory-installed cards. 2. Load default settings (if screen is readable). 3. Main board
Display problem: - Incorrect colors No high intensity Missing, broken, or incorrect characters Blank monitor(dark) Blank monitor(bright) Distorted image Unreadable monitor Other monitor problems	1. Monitor signal connection/cable. 2. Monitor 3. Video adapter card 4. Main board
Display changing colors.	1. Monitor signal connection/cable 2. Monitor 3. Main board
Display problem not listed above (including blank or illegible monitor).	1. "Monitor". 2. Load default settings (if screen is readable). 3. Main board

Error Symptom	Action/FRU
Parallel/Serial Ports	
Execute "Load BIOS Default Settings" in BIOS Setup to confirm ports presence before diagnosing any parallel/serial ports problems.	
Serial or parallel port loop-back test failed.	1. Make sure that the LPT# or COM# you test is the same as the setting in BIOS Setup. 2. Loop-back. 3. Main board.
Printing failed.	1. Ensure the printer driver is properly installed. Refer to the printer service manual. 2. Printer. 3. Printer cable. 4. Main board.
Printer problems.	1. Refer to the service manual for the printer.
Keyboard	
Some or all keys on keyboard do not work.	1. Keyboard
Power Supply	
Pressing power switch does not turn off system. (Only unplugging the power cord from electrical outlet can turn off the system.)	1. Ensure the Power Switch < 4 sec. in BIOS Setup of Power Management is not set to Suspend. 2. Power switch cable assembly
Pressing power switch does not turn on the system.	1. Ensure the power override switch (situated at the back of the machine, just above the connector for the power cable) is not set to OFF. 2. Power switch cable assembly.
Executing software shutdown from Windows98 Start menu does not turn off the system. (Only pressing power switch can turn off the system).	1. Load default settings. 2. Reload software from Recovery CD.
No system power, or power supply fan is not running.	1. Power Supply 2. Main board
Other Problems	
Any other problems.	1. Undetermined Problems

Undetermined Problems

If an error message is present, go to “POST Error Messages List” on page 62. If you did not receive any messages, see if the symptom is listed in “or “Error Symptoms List” on page 64. If you still cannot solve the problem, continue with this check:

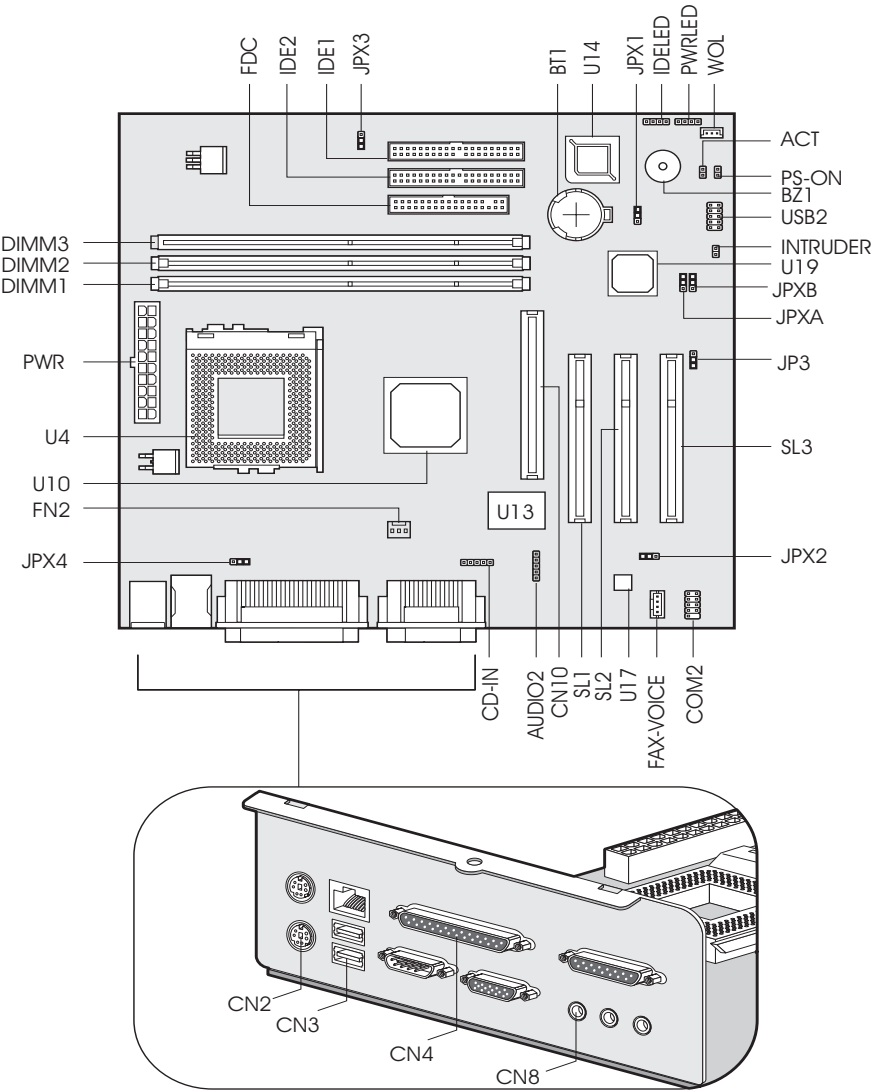
1. Check the power supply voltages. If the voltages are correct continue with the following steps:
2. Power off the system unit.
3. Perform the following checks, one by one, until you have isolated the problem FRU.
4. Load default settings in setup.
5. Check all main board jumper positions and switch settings.
6. Check all adapter card jumper positions.
7. Check all device jumper positions.
8. Check all cables and connectors for proper installation.
9. If the jumpers, switches and voltage settings are correct, remove or disconnect the following, one at a time:
 10. Non-Acer devices
 - ☐ External devices
 - ☐ Any adapter card (modem card, LAN card or video card, if installed)
 - ☐ CD/DVD-ROM drive
 - ☐ Diskette drive
 - ☐ Hard disk drive
 - ☐ DIMM
 - ☐ Processor
 - ☐ Main board
11. Power on the system unit.
12. Repeat steps 2 through 5 until you find the failing device or adapter.

Jumper and Connector Information

Jumpers and Connectors

Refer to the following figure for the location of the jumpers and connectors on the main board:

Main board



Connector Description

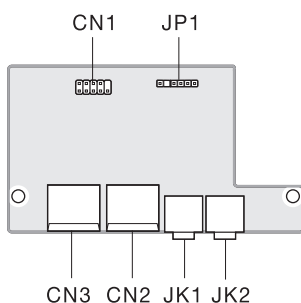
Connector No.	Description
ACT	Turbo/LAN active LED connector
AUDIO2	Audio connector for USB-audio board
BT1	Battery
BZ1	Buzzer
CD-IN	CD-ROM audio connector
CN2	PS/2 mouse (upper) and keyboard (lower) ports
CN3	Network (upper) and USB (lower) ports
CN4	Parallel (upper), VGA (lower right) and serial port 1 (lower left) ports
CN8	MIDI/game (upper), line-out (left), line-in (middle), and mic-in (right) ports
CN10	AGP slot
COM2	Serial port 2 (COM2) connector (optional)
DIMM 1 to 3	DIMM sockets 1 to 3
FDC	Floppy disk drive connector
FN2	3-pin CPU fan connector
IDELED	IDE LED connector
IDE1	IDE 1 HDD connector
IDE2	IDE 2 HDD connector
INTRUDER	Intrusion alarm connector
PS-ON	ATX power switch
PWR	ATX power connector
PWRLED	Power LED connector
SL 1 to 3	PCI slots 1 to 3
USB2	USB connector for USB-audio board
U4	FC-PGA CPU socket
U10	Intel 82815 chipset
U13	Super I/O chipset
U14	Firmware HUB (BIOS)
U17	Audio chipset
U19	Intel 82801BA chipset
WOL	Wake on LAN connector

Jumper Setting

Jumper	Function and settings
JP2 1-3, 2-4 3-5, 4-6*	Line-out options Unamplified Amplified
JP3 1-2* 2-3	LAN EEPROM Enabled Disabled
JPXA 1-2 2-3*	Boot block Enabled Disabled
JPXB 1-2 2-3*	Check password Enabled Disabled
JPX1 1-2 2-3*	CMOS clear Clear CMOS Normal
JPX2 1-2 2-3*	CPU speed Safe mode Normal
JPX3 1-2* 2-3	Support CPU Coppermine/Celeron VIA (Cyrix)/Joshua
JPX4 1-2* 2-3	Onboard LAN Enabled Disabled

NOTE: *: Default Settings

Audio Board



Connector No.	Description
JP1	Audio connector - connects to the AUDIO2 connector of the mainboard
CN1	USB connector - connects to the USB2 connector of the mainboard
CN2 and CN3	USB ports
JK1	Microphone-in port*
JK2	Audio-out port

* The system has two microphone-in ports (front and rear). However, you can not use both of them at the same time. The default setting for your system enables the microphone-in port in front and disables the one at the back. You must first enable the front microphone-in port before you can use it.

FRU (Field Replaceable Unit) List

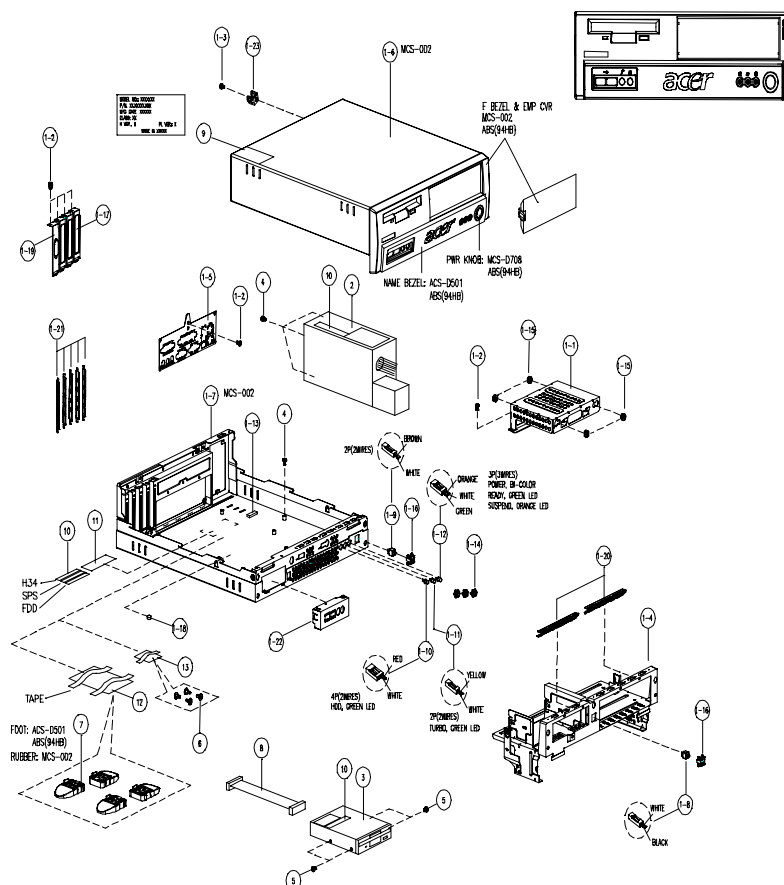
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Veriton 3200. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

IMPORTANT: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how best to dispose it, or follow the rules set by your regional Acer office on how to return it.

NOTE: The number indicates the location shown on exploded diagram or “NS” indicates “Not shown” on it.

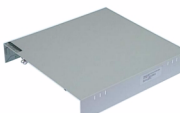
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Picture	No.	Partname	Description	Part No.
CPU/Processor				
	NS	CPU COPPERMINE 1GMHZ INTEL	IC CPU COPP1GHZ/133 256K FCPGA	01.COPRM.1GB
		IC CPU COP733/133FSB C0 FCPG	IC CPU COP733/133FSB C0 FCPG	01.COPRM.73D
		CPU COPPERMINE 800MHZ INTEL	IC CPU COP800/133FSB C0 FCPG	01.COPRM.80K
		CPU COPPERMINE 866MHZ INTEL	IC CPU COPP866/133/256/0D SECC	01.COPRM.86A
		CPU COPPERMINE 933MHZ INTEL	IC CPU COP933/133FSB C0 FCPG	01.COPRM.93B
		CPU COPPERMINE 750MHZ INTEL	IC CPU COP750/100FSB C0 FCPG	01.COPRM.75H
		CPU COPPERMINE 800MHZ INTEL	IC CPU COP800/100FSB C0 FCPG	01.COPRM.80J
		CPU COPPERMINE 850MHZ INTEL	IC CPU COP850/100FSB C0 FCPG	01.COPRM.85D
		CPU CELERON 700MHZ 128K INTEL	IC CPU CEL700/128K OD C0 FCPGA	01.ICLON.70C
		CPU CELERON 733MHZ 128K INTEL	IC CPU CELON733/128K FCPGA	01.ICLON.733
		CPU CELERON 766MHZ 128K INTEL	IC CPU CELERON766MHZ/128K C-0	01.ICLON.766
Heatsink				
	NS	Heatsink	CPU FANSINK 60*54*38MM	90.00028.655
		Heatsink	Fan Sink SKT370 3-pin AI	90.00028.632
		Heatsink	FAN SINK H34	90.00028.319
Memory				
	NS	MEMORY DIMM 128M INFINEON	DIMM 128M HYS64V16300GU-8-C2(A)	72.64163.L01
		MEMORY SDIMM 64M	SDIMM 64MB MT4LSDT864AG-133B1	72.04864.L01
		MEMORY DIMM 128M MICRON	SDIMM 128M MT8LSDT1664AG-133B1	72.81664.L01
		MEMORY DIMM 64M INFINEON	DIMM 64M HYS64V8301GU-7.5-C2(A)	72.64831.L01
		MEMORY DIMM 128M INFINEON	DIMM MODULE 128M HY64V16300GU-	72.64163.L03
		MEMORY DIMM 256M	SDIMM 256M 64V32300GU-7.5-A(A)	72.64323.L02

Picture	No.	Partname	Description	Part No.
FDD/Floppy Disk Drive				
	3	FDD 1.44M PANASONI/JU-256A046P	FDD 1.44 JU-256A046P ACER V.H	56.01057.195
HDD/Hard Disk Drive				
	NS	HDD 20G SEAGATE/ST320413A	HDD U5 20GB SEG/ST320413A GC85	56.02B34.121
		HDD 10GB SEAGATE/ST310211A GC85	HDD U5 10GB SEG/ST310211A GC85	56.02A73.041
		HDD 30GB SEAGATE/ST330621A GC85	HDD U5 30GB SEG/ST330621A GC85	56.02B94.041
		HDD 40GB SEAGATE/ST340823A GC85	HDD U5 40GB SEG/ST340823A GC85	56.02C11.031
		HDD 10G QUANTUM/LD10	HDD 10G 4500 QTM/LD10	56.02A71.121
		HDD 20G QUANTUM/LD20	HDD 20G 4500 QTM/LD20	56.02B33.071
		HDD 30G QUANTUM/LD30	HDD 30G 4500 QTM/LD30	56.02B92.041
		HDD 40G QUANTUM/LD40	HDD 40G 4500 QTM/LD40	56.02C16.001
		HDD 20G MAXTOR/32049H2	HDD 20G 5400 PRX MAX/32049H2	56.02B32.091
		HDD 30G MAXTOR/33073H3	HDD 30G 5400 PRX MAX/33073H3	56.02B93.051
		HDD 40G MAXTOR/34098H4	HDD 30G 5400 PRX MAX/33073H3	56.02C10.031
		HDD 20G MAXTOR/52049H3	HDD 20G 7200 NEBULA MT/52049H3	56.02B34.111
		HDD 30G QUANTUM/LM30.0	HDD 30G 7200RPM QTM/LM30.0	56.02B92.031
CD-ROM Drive				
	NS	CD-ROM 48X LIT/LTN-485S JU03	CD-ROM 48X LIT/LTN-485S JU03	56.10183.022
CD-RW Drive				
	NS	CD-RW 8/4/32X LG/CED-8080B	CD-RW 8/4/32X LG/CED-8080B AC	56.1938H.021
		CD-RW 8/4/32 SONY/CRX140E-AC	CD-RW 8/4/32 SONY/CRX140E-AC	56.1938H.011

Picture	No.	Partname	Description	Part No.
DVD-ROM Drive				
	NS	DVD-ROM 12X HITACHI/GD-7500AC0	DVD 12X HITACHI/GD-7500AC0	56.2238H.001
		DVD-ROM 40X LG/DRD-8120B ACER	DVD-ROM 40X LG/DRD-8120B ACER	56.2230K.021
Cables				
	NS	POWER CORD 10A 125V	CORD SP 3C 10A 125V 13F9959	27.01118.131
	NS	AUDIO CABLE	W.A 4P 2C AUDIO 520MM H61	50.37702.041
	NS	CABLE 80P 300MM	C.A 80P 2C 300MM ULTRA66 H26	50.96804.001
	NS	USB CABLE	C.A USB/10P 260MM H61	50.92216.001
	NS	AUDIO CABLE 6/5P 385MM	W.A 6/5P 385MM S58M AUDIO BD	50.38H01.001
	NS	CABLE 40/40P 300MM	C.A.40/40P CDR 300MM H34	50.97502.001
	9-12	POWER LED CABLE	W.A 3P/PWR LED 500MM LX-45	50.93302.001
	1-11	TURBO LED CABLE	W.A 2P/TURBO LED 500MM LX-45	50.93303.001
	1-10	HDD LED CABLE	W.A 4P/HDD LED 500MM LX-45	50.93304.001
	1-9	POWER SWITCH	W.A 2P/PWR SW 500MM LX-45	50.93305.001
Main Board				
	NS	MAINBOARD/S58M	S58M-1 MAIN BOARD	55.38H01.D61

Picture	No.	Partname	Description	Part No.
Boards				
	NS	VGA BOARD 8M	VGA 8MB LT VANTA LOW PROFILE	54.02130.001
		VGA BOARD 32M	VGA 2MX32MB LOWPROFILE LEADTEX	54.0205E.091
	NS	AUDIO/USB BOARD	S58M AUDIO/USB BOARD	55.38H02.D11
	NS	MODEM BOARD 56K AMBIT	MODEM 56K 90 AMBIT/ T62M154.04	54.09011.461
		MODEM BOARD 56K ASKEY	MODEM 56K ASKEY/ 1456VQH20E-004	54.09262.121
Power Supply				
	2	POWER SUPPLY 145W FSP/FSP-145-60SA	SPS 145W FSP/PFC FSP-145-60SA	56.04145.GA1
		POWER SUPPLY 145W PFC SPI/ FSP145-60SA	SPS 145W PFC SPI/FSP145-60SA	56.04145.GC1
Case/Cover/Bracket assembly				
	1-5	I/O BRACKET	ASSEMBLY IO BRACKET(S58M)H34	60.97504.001
	1-1	HDD BRACKET	BRACKET HDD SECC H34	33.97501.001
	1-6	UPPER CASE	ASSEMBLY UP CASE D002 H34	60.97503.001

Picture	No.	Partname	Description	Part No.
	1-7	LOWER CASE	ASSEMBLY LOW CASE D002 H34	60.97502.001
	NS	FRONT BEZEL	ASSY FRONT BEZEL VT3200 H34	60.97505.001
	1-4	ROTATE FRAME	ASSEMBLY ROTATE FRAME H34	60.97506.001
Screws				
	1-3	SCREW	SCRW TAP HEX ZINC M3*.5*5	86.BA224.5R0
	NS	SCREW	SCREW TAP HEX ZNIC #6-32*4/16"	86.BA226.016
	NS	SCREW	SCRW TAP HEX ZN #6*5/32"	86.BA226.010
	1-2	SCREW	SCRW TAP HEX ZN #6*3/16"	86.BA226.012
Miscellaneous parts				
	NS	FOOT STAND	ASSY FOOT STAND ABS 501 H34	60.97507.011
	1-22	EMI USB COVER	EMI USB COVER TIN H34	34.97502.001
Keyboard				
	NS	KEYBOARD US 104KEYS	KB US 104KEYS	99.P5181.041
		KEYBOARD 105KEYS SWISS/US	KB 105KEYS SWISS/US	91.62C07.040
		KEYBOARD US 104 KEY API 6511-CX(62C)	KB US 104 KEY API 6511-CX(62C)	91.62C07.041
		KEYBOARD 105KEYS SPANISH/U	KB 105KEYS SPANISH/U	91.62C07.042
		KEYBOARD 104KEYS THAILAND	KB 104KEYS THAILAND	91.62C07.043
		KEYBOARD 104KEYS INTERNATIONAL/US	KB 104KEYS INTERNATIONAL/US	91.62C07.046
		KEYBOARD 104KEYS CZECH/US	KB 104KEYS CZECH/US	91.62C07.049
		KEYBOARD 104KEYS ARABIC/U	KB 104KEYS ARABIC/U	91.62C07.04A
		KEYBOARD 105KEYS BELGIUM/US	KB 105KEYS BELGIUM/US	91.62C07.04B

Picture	No.	Partname	Description	Part No.
	NS	KEYBOARD 104KEYS CHINESE/US	KB 104KEYS CHINESE/US	91.62C07.04C
		KEYBOARD 105KEYS DANISH/US	KB 105KEYS DANISH/US	91.62C07.04D
		KEYBOARD 105KEYS ITALIAN/US	KB 105KEYS ITALIAN/US	91.62C07.04E
		KEYBOARD 105KEYS FRENCH/US	KB 105KEYS FRENCH/US	91.62C07.04F
		KEYBOARD 105KEYS GERMAN/US	KB 105KEYS GERMAN/US	91.62C07.04G
		KEYBOARD 104KEYS HEBREW/US	KB 104KEYS HEBREW/US	91.62C07.04H
		KEYBOARD 104KEYS SLOVAKIAN/US	KB 104KEYS SLOVAKIAN/US	91.62C07.04L
		KEYBOARD 105KEYS ICELAND/US	KB 105KEYS ICELAND/US	91.62C07.04M
		KEYBOARD 105KEYS NORWEGIAN	KB 105KEYS NORWEGIAN	91.62C07.04N
		KEYBOARD 105KEYS HOLLAN	KB 105KEYS HOLLAN	91.62C07.04O
		KEYBOARD 105KEYS PORTUGUESE	KB 105KEYS PORTUGUESE	91.62C07.04P
		KEYBOARD 105KEYS TURKEY-F 6512-CX4Q	KB 105KEYS TURKEY-F 6512-CX4Q	91.62C07.04Q
		KEYBOARD 104KEYS RUSSIAN/US	KB 104KEYS RUSSIAN/US	91.62C07.04R
		KEYBOARD 105KEYS SPANISH	KB 105KEYS SPANISH	91.62C07.04S
		KEYBOARD 105KEYS TURKEY 6512-CX4T	KB 105KEYS TURKEY 6512-CX4T	91.62C07.04T
		KEYBOARD 105KEYS UK 6512-CX4U	KB 105KEYS UK 6512-CX4U	91.62C07.04U
		KEYBOARD 105KEYS CANDIAN/FRENCH	KB 105KEYS CANDIAN/FRENCH	91.62C07.04V
		KEYBOARD 105KEYS SWEDEN 6512-CX4W	KB 105KEYS SWEDEN 6512-CX4W	91.62C07.04W
		KEYBOARD 105KEYS HUNGARIA/US	KB 105KEYS HUNGARIA/US	91.62C07.04X
		KEYBOARD 104KEYS GREEK/US 6511-CX4Y	KB 104KEYS GREEK/US 6511-CX4Y	91.62C07.04Y
		KEYBOARD SWISS 105KEYS	KB SWISS 105KEYS	99.P5181.040
		KEYBOARD US 104KEYS	KB US 104KEYS	99.P5181.041
		KEYBOARD SPANISH/US 105KEYS	KB SPANISH/US 105KEYS	99.P5181.042
		KEYBOARD THAILAND 104KEYS	KB THAILAND 104KEYS	99.P5181.043
		KEYBOARD INTERN/US 104KEYS	KB INTERN/US 104KEYS	99.P5181.046
		KEYBOARD CZECH 104KEYS	KB CZECH 104KEYS	99.P5181.049
		KEYBOARD ARABIC 104KEYS	KB ARABIC 104KEYS	99.P5181.04A
		KEYBOARD BELGIUM 105KEY	KB BELGIUM 105KEY	99.P5181.04B
		KEYBOARD CHINESE 104KEYS	KB CHINESE 104KEYS	99.P5181.04C
		KEYBOARD DANISH 105KEYS	KB DANISH 105KEYS	99.P5181.04D
		KEYBOARD ITALIAN 105KEYS	KB ITALIAN 105KEYS	99.P5181.04E
		KEYBOARD FRENCH 105KEYS	KB FRENCH 105KEYS	99.P5181.04F

Picture	No.	Partname	Description	Part No.
	NS	KEYBOARD GERMANY 105KEYS	KB GERMANY 105KEYS	99.P5181.04G
		KEYBOARD HEBREW 104KEYS	KB HEBREW 104KEYS	99.P5181.04H
		KEYBOARD POLISH 105KEYS	KB POLISH 105KEYS	99.P5181.04I
		KEYBOARD JAPANESE 109KEYS	KB JAPANESE 109KEYS	99.P5181.04J
		KEYBOARD ICELAND 105KEYS	KB ICELAND 105KEYS	99.P5181.04M
		KEYBOARD NORWEGIAN 105KEYS	KB NORWEGIAN 105KEYS	99.P5181.04N
		KEYBOARD HOLLAND 105KEYS	KB HOLLAND 105KEYS	99.P5181.04O
		KEYBOARD PORTUGUESE 105KEYS	KB PORTUGUESE 105KEYS	99.P5181.04P
		KEYBOARD RUSSIAN 104KEYS	KB RUSSIAN 104KEYS	99.P5181.04R
		KEYBOARD SPANISH 105KEYS	KB SPANISH 105KEYS	99.P5181.04S
		KEYBOARD TURKEY 105KEYS	KB TURKEY 105KEYS	99.P5181.04T
		KEYBOARD UK 105KEYS	KB UK 105KEYS	99.P5181.04U
		KEYBOARD CANDIAN/FRE 105KEYS	KB CANDIAN/FRE 105KEYS	99.P5181.04V
		KEYBOARD SWEDEN 105KEYS	KB SWEDEN 105KEYS	99.P5181.04W
		KEYBOARD GREEK 104KEYS	KB GREEK 104KEYS	99.P5181.04Y
		KEYBOARD 104 KEYS US	KB 104 KEYS US	99.P5181.061
		KEYBOARD 105 KEYS UK	KB 105 KEYS UK	99.P5181.06U
		KEYBOARD BRAZIAL 107KEYS	KB BRAZIAL 107KEYS	99.P518A.044
Pointing device				
	NS	MOUSE LOGITEC	MOUSE LOGITEC/930541-0000 S59P	90.34J26.001
		MOUSE LOGITEC	MOUSE WHEEL LOGITECH/ S48A S61	90.35G26.001
		MOUSE LOGITEC	MOUSE PRIMAX/BA088X03	90.34J26.002
Speaker				
	NS	USB SPEAKER	SPK USB POWER CHARMING/V-1	90.38H12.001

Model Definition and Configuration

Veriton 3200

The Veriton 3200 Model No. Define:

1. Trade Mark:



2. Brand Name: Acer
3. Description: Acer Veriton Series, PIII & Celeron Socket 370 Based PC System
4. Model No: VT3200
5. Product Name: Veriton 3200

Test Compatible Components

This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under MS DOS V6.22, Microsoft Windows ME, Microsoft Windows 2000 Professional, Microsoft NT 4.0 Workstation, IBM OS/2 Warp 4.0, Novell Netware 4.12 & 5.1, and SCO UNIX/Red Hat Linux environment.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the Veriton 3200 Compatibility Test Report released by the Acer Desktop System Testing Department.

MS DOS V6.22 Environment Test

Item	Specifications
Processor	Coppermine 766/66 MHz Coppermine 850/100 MHz Coppermine 1GB/133 MHz
Memory	64 MB 128 MB 256 MB
Cache	128 KB 256 KB
Diskette Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate U5 20.4 GB API 650P
EIDE Channel 1 Slave	AOpen CD-948E
EIDE Channel 2 Master	API 640A-247 Quantum 20.4 GB
EIDE Channel 2 Slave	Seagate 10.2 GB
Mouse	Logitech Wheel Mouse S48A Primax Wheel Mouse MOSXK
Keyboard	API 62C API 32TW
Monitor	Acer View 19" Acer View 77C

Microsoft Windows ME Environment Test

Item	Specifications
Processor	Coppermine 733/66 MHz Coppermine 800/100 MHz Coppermine 933/133 MHz
Memory	64 MB 192 MB 256 MB
Cache	128 KB 256 KB
Floppy Disk Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 20.4 GB Quantum 15 GB
EIDE Channel 1 Slave	Maxtor 30 GB AOpen CD-948E
EIDE Channel 2 Master	Quantum 20.4 GB API 640A-247
EIDE Channel 2 Slave	AOpen CD-948E Pro Seagate 10.2 GB
Mouse	Logitech Wheel Mouse S48A Primax Wheel USB
Keyboard	API 62C API USB
Monitor	Acer View 19" Acer View 77C
Sound/MPEG Adapter	Onboard AD1881 Diamond Monster Sound M80 PCI Card Creative Sound Blaster PCI 64
Video Adapter	Winfast 3D S325 32 MB PCI ATI 128 PRO Pro 16 MB PCI ATI 128 PRO Pro 32 MB PCI
Fax/Modem Adapter	Ambit 56K HCF PCI Askey 56K HCF PCI
Joystick/Game Pad	Microsoft SideWinder Precision Pro Microsoft SideWinder Force Feedback Pro Microsoft SideWinder Game Pad Primax RAPTOR 3D USB Gamestick
USB Devices	HP Desk Jet 895C USB Printer Logitech Pagescan USB Acer Digital Video Camera Primax USB Joystick Microsoft USB Joystick AcerScan Prisa 310U Intel USB Digital Video Camera
Printer	HP Desk Jet 695C Epson Stylus Color 440 Canon BJC-4130 SP

Microsoft Windows 2000 Professional Environment Test

Item	Specifications
Processor	Coppermine 700/100 MHz Coppermine 866/133 MHz
Memory	64 MB 256 MB
Cache	256 KB
Diskette Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 30 GB
EIDE Channel 1 Slave	Quantum 20.4 GB
EIDE Channel 2 Master	API 640A-247
EIDE Channel 2 Slave	AOpen CD-940E Pro
Mouse	Logitech Wheel Mouse S48A Primax Wheel Mouse MOSXK
Keyboard	API 62C API 32TW
Monitor	Acer View 19" Acer View 77C
Sound Adapter	Onboard AD1881
Video Adapter	ATI Rage 128 PRO 32MB PCI Acer TNT2 AGP 4X 16MB PCI
LAN Adapter	3COM 3C905C-TXM ANI ALN-325 Acer NIC-559A

Microsoft NT 4.0 Workstation Environment Test

Item	Specifications
Processor	Coppermine 750/100 MHz Coppermine 866/133 MHz
Memory	64 MB 256 MB
Cache	256 KB
Diskette Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 20 GB
EIDE Channel 1 Slave	Quantum 20.4 GB
EIDE Channel 2 Master	API 640A-247
EIDE Channel 2 Slave	AOpen CD-940E Pro
Mouse	Logitech Wheel Mouse S48A Primax Wheel Mouse MOSXK
Keyboard	API 62C API 32TW
Monitor	Acer View 19" Acer View 77C

IBM OS/2 Warp 4.0 Environment Test

Item	Specifications
Processor	Coppermine 600/100 MHz
Memory	256 MB
Cache	256 KB
Diskette Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 20.4 GB
EIDE Channel 2 Master	API 640A-247
Mouse	Logitech Wheel Mouse S48A
Keyboard	API 62C
Monitor	Acer View 19"

Novell Netware 4.12 & 5.1 Environment Test

Item	Specifications
Processor	Coppermine 500/66 MHz Coppermine 600/100 MHz Coppermine 800/133 MHz Coppermine 866/2133 MHz
Memory	64 MB 96 MB 128 MB 256 MB
Cache	128 KB 256 KB
Diskette Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 30 GB
EIDE Channel 1 Slave	Quantum 20.4 GB
EIDE Channel 2 Master	API 640A-247
EIDE Channel 2 Slave	AOpen CD-940E Pro
Mouse	Logitech Wheel Mouse S48A Primax Wheel Mouse MOSXK
Keyboard	API 62C API 32TW
Monitor	Acer View 19" Acer Vew 77C
LAN Adapter 1	3COM 3C905C-TXM Acer NIC-559A ANI ALN-325
LAN Adapter 2	3COM 3C339 3COM 3C905C-TXM D-Link DFE-500TX IBM Token Ring PCI
LAN Adapter 3	ANI ALN-325 IBM Token Ring PCI 3COM 3C339 3COM 3C905C-TXM
SCSI Adapter	AHA-2940UW AHA-3940UW AHA-3940AUW
SCSI HDD	Seagate 8 GB IBM 4 GB Quantum 2 GB

SCO UNIX/Red Hat Linux Environment Test

Item	Specifications
Processor	Coppermine 500/100 MHz Coppermine 866/133 MHz
Memory	64 MB 256 MB
Cache	256 KB
Diskette Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 30 GB
EIDE Channel 1 Slave	Quantum 20.4 GB
EIDE Channel 2 Master	API 640A-247
EIDE Channel 2 Slave	AOpen CD-940E Pro
Mouse	Logitech Wheel Mouse S48A Primax Wheel Mouse MOSXK
Keyboard	API 62C API 32TW
Monitor	Acer View 19" Acer View 77C

Online Support Information

This section describes online technical support services available to help you repair your Acer Systems.

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local Acer branch office. Acer Branch Offices and Regional Business Units may access our website. However some information sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers you convenient and valuable support resources whenever you need them.

In the Technical Information section you can download information on all of Acer's Notebook, Desktop and Server models including:

- ☐ Service guides for all models
- ☐ User's manuals
- ☐ Training materials
- ☐ Main manuals
- ☐ BIOS updates
- ☐ Software utilities
- ☐ Schematics
- ☐ Spare parts lists
- ☐ Chips
- ☐ TABs (Technical Announcement Bulletin)

The service repair section provides you with downloadable information on:

- ☐ Troubleshooting guides
- ☐ Tooling box information
- ☐ Repair instructions for specific models
- ☐ Basic repair guidelines
- ☐ Debug cards for Acer's latest models

For these purposes, we have included an Acrobat File to facilitate the problem-free downloading of our technical material.

Also contained on this website are:

- ☐ Detailed information on Acer's International Traveler's Warranty (ITW)
- ☐ Returned material authorization procedures
- ☐ An overview of all the support services we offer, accompanied by a list of telephone, fax and email contacts for all your technical queries.

We are always looking for ways to optimize and improve our services, so if you have any suggestions or comments, please do not hesitate to communicate these to us.

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